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Title:
Perfect score:
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Maximum Match 100%
Listing first 45 s
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Maximum DB
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seq length: 2000000000
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1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1759131 segs, 391586102 residues
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Copyright (c) 1993 - 2005 Compugen Ltd.
in2_6/ptcdata/1/pubpaa/USO9_FUBCOMB.pep:*
in2_6/ptcdata/1/pubpaa/USO9_FUBCOMB.pep:*
in2_6/ptcdata/1/pubpaa/USO8_NEW PUB.pep:*
in2_6/ptcdata/1/pubpaa/USO8_NEW PUB.pep:*
in2_6/ptcdata/1/pubpaa/USO9A_PUBCOMB.pep:*
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in2_6/ptcdata/1/pubpaa/USOA_PUBCOMB.pep:*
in2_6/ptcdata/1/pubpaa/USOA_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Regult No.	1					۵					
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Score	541	541	528	528	528	528	295.5	295.5	295.5	295.5	295.5
Query Match	100.0	100.0	97.6	97.6	97.6	97.6	54.6	54.6	54.6	54.6	54.6
Query Match Length DB		102									
	14	16	14	15	15	15	14	14	15	15	15
ID	US-10-205-823-186	US-10-821-273-2	US-10-131-409-46	US-10-139-854-46	US-10-150-813-46	US-10-150-811-46	US-10-131-409-28	US-10-131-409-38	US-10-139-854-28	US-10-139-854-38	US-10-150-813-28
Description	Sequence 186,	Sequence 2,	Sequence 46,	Sequence 46,	Sequence 46,			Sequence 38,	Sequence 28,	Sequence 38,	Seguence 28,
	, App	2, Appli	Appl	Appl	App1	Appl	Appl	Appl	App1	Appl	Appl

<u>4</u> 5	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	
147.5	156	156	156	156	156	156	156	156.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	168.5	176	176	176	181.5		181.5	181.5	181.5	181.5	181.5	181.5	181.5	•	219	295.5	295.5	,
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-072-012-	-10-473-603-	-10-072-	-10-072-012-	-01	-072-012	-10-093-766	US-09-974-298-127	-10-072-012-	-10-150-	-10-150-811-		-10-150-813-	-10	-10-139-854-	-131-	-10-131-409-	-10-473-603-	-10-188-832-1	-10-0	-10-473-603	-10-1	-10-150-811	-10-1	-10-150-813-	-10-139-854-	-10-139	-10-131	US-10-131-409-4	US-10-054-683-37	US-10-029-386-31312	-10-150-811-	-10-150-811-2	
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134, App	19, Appl	433, App	132, App	112, App		36, Appl	?7, App		110, App	6, Appli	110, App	6, Appli	110, App	6, Appli	110, App	5, Appli	21, Appl	23	21, Appl	•	37, Appl	<u>.</u>	J	-	•	4, Appli		4, Appli	37, Appl	$\vdash$	38, Appl	œ	•

# ALIGNMENTS

US-10-205-823-186

Sequence 186, Application US/10205823

Publication No. US20030108963A1

GENERAL INFORMATION:

APPLICANT: Schlegel, Robert

APPLICANT: Monahan, John E.

APPLICANT: Monahan, John E.

APPLICANT: Monahan, John E.

APPLICANT: Monahan, John E.

APPLICANT: Gannavarapu, Manjula

APPLICANT: Gannavarapu, Manjula

APPLICANT: Gannavarapu, Manjula

APPLICANT: Monsey, Angela M.

APPLICANT: Glatt, Karen

APPLICANT: Glatt, Karen

APPLICANT: Anderson, Dustin

TITLE OF INVENTION: MOVEL GENES, COMPOSITIONS, KITS, AND

TITLE OF INVENTION: MOVIL GENES, COMPOSITIONS, KITS, AND

TITLE OF INVENTION: MOVIL GENES, COMPOSITIONS, KITS, AND

TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, APPLICATION NUMBER: US/10/205,823

CURRENT FILING DATE: 2001-07-25

PRIOR APPLICATION NUMBER: 60/314,356

PRIOR APPLICATION NUMBER: 60/314,356

PRIOR FILING DATE: 2001-09-25

PRIOR APPLICATION NUMBER: 60/314,746

PRIOR APPLICATION NUMBER: 60/314,746

PRIOR APPLICATION NUMBER: 60/362,158

PRIOR APPLICATION N

**SEQ ID NO 186** 

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PRIOR APPLICATION NUMBER: US 09/306,111
PRIOR FILING DATE: 1999-05-06
PRIOR FILING DATE: 1999-05-07
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: US 60/087,645
PRIOR FILING DATE: 1998-06-02
PRIOR PILING DATE: 1998-07-22
PRIOR APPLICATION NUMBER: US 60/093,712
PRIOR FILING DATE: 1998-07-22
PRIOR FILING DATE: 1998-07-23
PRIOR FILING DATE: 1998-07-31
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                                                                                                                                                                                     Query Match
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LENGTH: 102
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Best Local :
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TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING
PTILE REFERENCE: 00766.000101.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John M.
APPLICANT: LaVallie, Edward R.
                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: US 60/096,068
PRIOR FILING DATE: 1998-08-11
                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver.
                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS:
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TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                  TYPE: PRT
                                                                                                                                                                 Local
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                                                                                              1 MSARVRSRSRGRGDGQEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVE
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                                                                                                                                                                   Similarity
                                                                      MSARVRSRSRGRGDGQEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVE
                               GDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
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No. US20040248256A1
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Stéininger II, Robert J.
Bowman, Michael R.
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Treacy, Maurice
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                                                                                                                                                   Conservative
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DS: 180
                                                                                                                                                               100.0%; Score 541; DB 16; 100.0%; Pred. No. 2.1e-42;
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Pred. No. 2.1e-42;
                                                                                                                                                 Mismatches
                                                                                                                                                 Indels
                                                                                                                                                                                     Length 102;
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CURRENT FILING DATE: 2002-10-24
PRIOR APPLICATION NUMBER: 09/898,954
PRIOR PILING DATE: 2001-07-03
PRIOR PILING DATE: 2001-07-03
PRIOR PILING DATE: 2000-02-15
PRIOR PPLICATION NUMBER: 60/182,733
PRIOR PILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR PILING DATE: 2000-02-25
PRIOR APPLICATION NUMBER: 60/24,157
PRIOR APPLICATION NUMBER: 60/224,157
PRIOR PILING DATE: 2000-02-33
PRIOR PILING DATE: 2000-02-33
PRIOR PILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/184,482
PRIOR PILING DATE: 2000-02-23
PRIOR APPLICATION NUMBER: 60/184,744
PRIOR APPLICATION NUMBER: 60/184,744
PRIOR APPLICATION NUMBER: 60/184,744
PRIOR APPLICATION NUMBER: 60/184,744
PRIOR APPLICATION NUMBER: 60/197,083
PRIOR PILING DATE: 2000-02-24
PRIOR PILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/197,083
PRIOR PILING DATE: 2000-02-24
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PRIOR APPLICATION NUMBER: 09/783,429
PRIOR FILING DATE: 2001-02-14
PRIOR PELICATION NUMBER: 60/182,733
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 2000-02-22
                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Majumder, Kumud
TITLE OF INVENTION: NOVel Polypeptides and
FILE REFERENCE: 15966-675CON2
CURRENT APPLICATION NUMBER: US/10/139,854
CURRENT FILING DATE: 2002-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 46, Application US/10139854
Publication No. US20030202971A1
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Best Local S
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TITLE OF INVENTION: No. US20030199465A1el Polypeptides and Nucleic FILE REFERENCE: 15966-675CIP1CON1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Remaining Prior Application data NUMBER OF SEQ ID NOS: 135
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TYPE: PRT
ORGANISM: Homo sapiens
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Similarity 100.0%; Pi
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No. US20030199465A1
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FILING DATE: 2000-02-23 APPLICATION NUMBER: 60/224,157 FILING DATE: 2000-08-10

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US-10-139-854-46
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PRIOR FILLING DATE: 2001-07-03
PRIOR APPLICATION NUMBER: 60/182,733
PRIOR FILLING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR PILLING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR FILLING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: 60/184,497
PRIOR APPLICATION NUMBER: 60/184,482
PRIOR APPLICATION NUMBER: 60/184,482
                                                                                                                  SOPTWARE: PatentIn
SEQ ID NO 46
• LENGTH: 99
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Publication No. US20030224367A1
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SEQ ID NO 46
LENGTH: 99
    Query Match
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                                                                                                                                                                                        Remaining Prior Application data removed -
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PRIOR FILING DATE: 2000-02-23
PRIOR APPLICATION NUMBER: 60/184,744
PRIOR FILING DATE: 2000-02-24
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                                                                        ORGANISM: Homo sapiens
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Local Similarity 100.0%; Pred. No. 3.3e-41;
nes 99; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                           FILING DATE: 2000-02-23
APPLICATION NUMBER: 60/184,744
FILING DATE: 2000-02-24
APPLICATION NUMBER: 60/197,083
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    97.6%;
    Score 528;
    DB 15;
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Length 99;
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RESULT 7
US-10-131-409-28
; Sequence 28, Application US/10131409
; Publication No. US20030199465A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar et al.
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PRIOR APPLICATION NUMBER: 60/184,744
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: 60/197,083
PRIOR FILING DATE: 2000-04-13
PRIOR PPLICATION NUMBER: 60/233,405
PRIOR FILING DATE: 2000-09-18
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PRIOR FILLING DATE: 2001-10-03
PRIOR APPLICATION NUMBER: 60/182,733
PRIOR FILLING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR FILLING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR FILLING DATE: 2000-02-23
PRIOR APPLICATION NUMBER: 60/184,497
PRIOR FILLING DATE: 2000-02-23
PRIOR APPLICATION NUMBER: 60/184,497
PRIOR FILLING DATE: 2000-02-23
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SEQ ID NO 46
LENGTH: 99
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Best Local
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Publication No.
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TITLE OF INVENTION: No. US20030199465A1el Polypeptides and Nucleic Acids Encoding Sam FILE REFERENCE: 15966-675CIP1CON1 CURRENT APPLICATION NUMBER: US/10/131,409
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TITLE OF INVENTION: No. US20040010120A1el
FILE REFERENCE: 15966-675CIP2CON1
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CURRENT FILING DATE: 2002-05-17
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PRIOR APPLICATION NUMBER: 60/
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PRIOR APPLICATION NUMBER: 60/224,157
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No. US20040010120A1
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100.0%; Pred. No. 3.3e-41;
tive 0; Mismatches 0;
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CURRENT FILING DATE: 2002-10-24
PRIOR APPLICATION NUMBER: 09/898,954
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SEQ ID NO 28
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Homo sapiens
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PRIOR APPLICATION
PRIOR FILING DATE:
PRIOR APPLICATION NI
PRIOR FILING DATE:
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Publication No.
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CURRENT FILING DATE: 2002-10-24
PRIOR APPLICATION NUMBER: 09/898,954
PRIOR FILING DATE: 2001-07-03
                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Malyankar et al.
TITLE OF INVENTION: No. US20030199465A1el Polypeptides and Nucleic Acids Encoding
FILE REFERENCE: 15966-675CIPICONI
                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 60/182,733
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APPLICATION NUMBER: 60/224,157
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APPLICATION NUMBER: 60/224,157
FILING DATE: 2000-08-10
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APPLICATION NUMBER: 60/184,744
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PRIOR APPLICATION NUMBER: 60/182,724
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: 60/184,497
PRIOR FILING DATE: 2000-02-23
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NUMBER OF SEQ ID NOS: 135
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 38
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Publication No.
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CURRENT FILING DATE: 2002-12-02
PRIOR APPLICATION NUMBER: 09/783,429
PRIOR FILING DATE: 2001-02-14
PRIOR APPLICATION NUMBER: 60/182,733
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TYPE: PRT
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PRIOR FILING DATE: 2000-02-24
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PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/184,482
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TYPE: PRT
ORGANISM: Homo sapiens
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                                59 VEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
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Pred. No. 1e-19;
4; Mismatches
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US-10-139-854-38
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Best Local
                                                                                               APPLICANT: Majunder
TITLE OF INVENTION: NOVel Polypeptides and Nucleic FILE REFERENCE: 15966-675CIPICON2
CURRENT APPLICATION NUMBER: US/10/150,813
CURRENT FILING DATE: 2002-12-03
PRIOR APPLICATION NUMBER: 09/898,954
PRIOR PILING DATE: 2001-07-03
PRIOR PILING DATE: 2001-07-03
PRIOR PILING DATE: 2000-02-15
PRIOR PILING DATE: 2000-02-15
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CURRENT FILLING DATE: 2002-12-02
PRIOR APPLICATION NUMBER: 09/783,429
PRIOR FILING DATE: 2001-02-14
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NUMBER OF SEQ ID NOS: 126
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PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR FILING DATE: 2000-02-15
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TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
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APPLICATION NUMBER: 60/183,896
FILING DATE: 2000-02-22
APPLICATION NUMBER: 60/184,497
                                                              APPLICATION NUMBER: 60/182,724 FILING DATE: 2000-02-15
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APPLICATION NUMBER: 60/233,405
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US-10-150-813-38
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PRIOR FILING DATE: 2001-07-03
PRIOR PELICNE DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,733
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/182,724
PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR PILING DATE: 2000-02-23
PRIOR APPLICATION NUMBER: 60/224,157
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/244,157
PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/184,482
PRIOR APPLICATION NUMBER: 60/184,482
PRIOR APPLICATION NUMBER: 60/184,744
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US-10-150-813-28
                                                                                                                    SEQ ID NO 38
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Publication No. US20030224367A1
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CURRENT FILING DATE: 2002-12-03
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                                                                                                                                                                                                                                   PRIOR FILING DATE: 2000-09-18
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PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 60/233,405
PRIOR FILING DATE: 2000-09-18
                                                           LENGTH: 1
TYPE: PRT
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PRIOR FILING DATE: 2000-02-24
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PRIOR FILING DATE: 2000-08-10
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Best Local Similarity

54.6%;

Score 295.5; DB Pred. No. 1e-19;

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Query Match

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RESULT 14
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           Sequence 38, Application US/10150811

Publication No. US20040010120A1

GENERAL INFORMATION:
APPLICANT: Malyankar et al.
APPLICANT: NOTENTION: No. US20040010120A1el Polypeptides and FILE REFERENCE: 15966-675CIP2CON1
CURRENT APPLICATION NUMBER: US/10/150,811
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Best Local
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PRIOR FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 60/183,896
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: 60/184,497
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CURRENT FILING DATE: 2002-05-17
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Pred. No. 1e-19;
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OTHER INFORMATION: MAP TO AF238380.1
OTHER INFORMATION: EXPRESSED IN BONE
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OTHER INFORMATION: EXPRESSED IN ADULY
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US-10-029-386-31312
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US-10-029-386-31312
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Publication No. US20030194704A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Hanzel, David K.
APPLICANT: HANZEN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
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Best Local Similarity
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CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
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PRIOR FILING DATE: 2000-08-10
PRIOR APPLICATION NUMBER: 60/184,482
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TYPE: PRT
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APPLICATION NUMBER: 60/182,724
FILING DATE: 2000-02-15
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APPLICATION NUMBER: 60/184,744
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100.0%; Pred. No. 4e-13;
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IN HEART, SIGNAL = 0.94
IN ADULT LIVER, SIGNAL = 2.3
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         Score
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1: uniprot_sprot:*
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7932; DOI=10.1 ., Grouse L.H. Magner L., She atow K.H., Sch armer A.A., Ru naldo M.F., Ca Toshiyuki S., Toshiyuki S., Mataria A. B., Garcia A. B., Garcia A. Aberren E.J., Madan A. C., Shevchenk C., Shevchenk Green E.D., Schmutz J., Mal argren E.D., Schmutz J., M.I., Skalsk s S.J.M., Mar sis of more th 99:16899-1690	PRT; 102 AA. d) equence update) innotation update) (Prostate-associa GE-9). ; Craniata; Verteb ; Catarrhini; Homi // Catarrhini; Homi // The Beneral Marked GAGE-like gene te, testis, and un te, testis, and un . 95:10757-10762(1) llebrand H., Dresc	Q8HYJO Q23872 Q8NA99 Q8ZRC5 Q96C66 Q15038 Q9150382 Q9UHA8 CENB CRIGR Q7TTXB Q7TTXB Q7TTXB Q9V628 RPL1_HUMAN ALIGNMENTS
O73/pnas.242603899; , Derge J.G., nmen C.M., Schuler G.D., aefer C.F., Bhat N.K., bin G.M., Hong L., bin G.M., Hong L., carrinci P., Prange C., rammon R.D., Mullahy S.J., rammon R.D., Mullahy S.J., ek J.A., Gunaratne P.H., M., Gay L.J., Hulyk S.W., Lu X., Gibbs R.A., Lu X., Gibbs R.A., Rodrigues S., Sanchez A., o Y., Bouffard G.G., Dickson M.C., erg R.M., an 15,000 full-length human 3(2002).	rata; Euteleostomi; inidae; Homo.  pnas.95.18.10757; N., Essand M., that is expressed in erus."; 1998).	Q8hyj0 felis silve Q23872 dictyosteli Q8na99 homo sapien Q6zrc5 homo sapien Q96c66 homo sapien O15038 homo sapien O60382 homo sapien Q9uha8 homo sapien P48988 cricetulus Q7ttx8 synechococc Q7tq48 mus musculu Q95tg7 drosophila Q9v628 drosophila Q8iwn7 homo sapien O80628 drosophila

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 -!- TISSUE SPECIFICITY: Preferentially expressed in normal male and female reproductive tissues, prostate, testis, fallopian tube,

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RESULT 2
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                                                                                                   A Strausberg R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K., Alleschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Wagner L., Schaefer C.F., Bhat N.K., Wagner L., Schaefer C.F., Bhat N.K., Wagner L., Schaefer C.F., Bhat N.K., Wagner M.D., Collins F.S., Wagner A.A., Rubin G.M., Hong L., Wagner Max S.I., Wang J., Hsieh F., Wagner M.B., Bonaldo M.F., Casvant T.L., Scheetz T.E., Schaefer C.F., Bhat N.K., Wagner M.D., Walk J.A., Gunaratne P.H., Wagner M.D., Schein J.E., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Wagner M.D., Wagner M.C., Shevchenko Y., Bouffard G.G., Wagner M.D., Wagner M.C., Shevchenko Y., Schein J.E., Wagner M.D., Schein J.E., Shakesley R.M., Touchman J.W., Green E.D., Dickson M.C., Shevin J.E., Schein J.E., Skalska U., Smailus D.E., Schmerch A., Schein J.E.,
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25-OCT-2004 (TrEMBLrel.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                           Jones S.J., Marra M.A.; "Generation and initial analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
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-!- SIMILARITY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
    sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Belongs to the GAGE family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            placenta, as well as in prostate cancer, testicular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          uterine
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Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11153 MW;
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26,
28,
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Last annotation updat
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                                           more
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  (See http://www.isb-sib.ch/announce/
                                           than
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                                       15,000 full-length humar
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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MBL outstation -
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RESULT 3
Q7Z2X7
ID Q7Z2
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Best Local Similarity
Matches 47; Conserv
                                                                                                                                                                           Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q7z2X7
Q7z2X7;
01-OCT-2003
01-OCT-2003
                                                                                                                                      Whiting M. Madan A. Young A.C., Shevchenko Y. Bo
Blakesley R.W., Touchman J.W., Green E.D., Dickson
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.
Krzywinski M.I., Skalska U., Smailus D.E., Schnerch
Strausberg R.; submitted (JUN-2003) to the EMBL; BC054022; AAH54022.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similar to PAGE-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-OCT-2003 (TrEMBLrel. 01-OCT-2003 (TrEMBLrel.
                                          TISSUE=Pooled;
                                                      SEQUENCE FROM
                                                                                                                             Jones S
                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Pooled
                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=MGC62094;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; BC009230; AAH09230.2;
EMBL; AJ344352; CAC87642.1;
                                                                                                               "Generation and initial analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (SEP-2001) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Strausberg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              interPro;
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                                                                                                   mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pro; IPR008625; GAGE.
PF05831; GAGE; 1.
NCE 130 AA; 14046
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                                                                                                                          .J., Marra M.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AVQGTDVEAFQQELALLKIEDAPGDGPDVREGTLPTFDPTKVLEAGEGQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MSEHVTRSQSSERGNDQESSQPVGPVIVQQPTEEKRQEEEPPTDNQGIAPSGEIKNEGAP
                                                                                              CDNA
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llarity 43.1%;
Conservative 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14046 MW;
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                                                                                    U.S.A.
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             EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence up
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 176;
Pred. No. (
                                                                                                                                                                                                                                                                                                                                                                                                                                             Craniata; Vertebrata;
Catarrhini; Hominidae
                                                                                    99:16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            red. No. 6.3e-07;
Mismatches 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17560A128E103424 CRC64;
                                                                                                                of more than 15,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Hominidae; Homo.
                                                                                                                                                                     Dickson M.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ruiter D.J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                        A
                                                                                                                                                        , Butterfield Y.S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Euteleostomi;
                                                                                                               full-length human
                                                                                                                                            Schein J.E.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8;
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RESULT 4
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                                                                                                                                                                                                                                       Strausberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,

A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.P., Jordan H., Casavant T.L., Scheetz T.E.,

B Hatchenko D., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M., Courellance N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

B Haha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

B Haha S.S., Loquellano N.A., Peters G.J., Malek J.A., Gunaratne P.H.,

A Hichards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Pahey J., Helton E., Keteman M., Madan A., Gay L.J., Hulyk S.W.,

A Hitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

B Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

B Hutterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

Chenerch A., Schein J.E., Jones S.J.M., Warra M.A.;

"Generation and initial analysis of more than 15,000 full-length human

and mouse cDNA sequences.",
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             This SWISS-PROT entry is copyright. It is produced through a collabbetween the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for come entities requires a license agreement (See http://www.isb-sib.ch/amor send an email to license@isb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
G antigen family D 5 protein (XAGE-5 protein)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Van Muijen d.N.P.; "The XAGE family of cancer/testis-associated genes: alignment and expression profile in normal tissues, melanoma lesions and Ewing'
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=GAGED5; Synonyms=XAGE5;
Homo sapiens (Human)
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28-FEB-2003
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Pfam; PF05831;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-22021429; PubMed=11992404; DOI=10.1002/ijc.10371; Zendman A.J.W., Van Kraats A.A., Weidle U.H., Ruiter D.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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                                                                                                                                                                                       SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                             FUNCTION: Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J. Cander 99:361-369(2002).
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45; Conserv
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Pred. No. 2.1
                                                                                                                                                                                                                              99:16899-16903 (2002).
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RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Hopkins R.F., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Rahas S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratene P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Hopkins M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J.W., Green B.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmtz J., Myers R.M.,
RCHENTALION F., Jones S.J.M., Marra M.A.,
RCHENTALION F., Schottz J., Myers R.M.,
RCHENTALION F., Schottz J., Myers R.M.,
RCHENTALION F., Schottz J., Marra M.A.,
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Best Local :
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(DWTP9; QBWYS9;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
G antigen family D 4 protein (Placenta-specific gene 6 protein) (XAGE-3 protein) (pp9012).
Name=GAGED4; Synonyms=PLAC6, XAGE3;
Homo sapiens (Human).
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SEQUENCE FROM N.A.
MEDLINE=22021429; PubMed=11992404; DOI=10.1002/ijc.10371;
MEDLINE=22021429; PubMed=11992404; DOI=10.1002/ijc.10371;
MEDLINE=2021429; PubMed=11992404; DOI=10.1002/ijc.10371;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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EMBL; BC069129; AAH69129.1;
Genew; HGNC:30930; GAGED5.
InterPro; IPR008625; GAGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "The XAGE family of cancer/testis-associated genes: alignment and expression profile in normal tissues, melanoma lesions and Ewing'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zendman A.J.W., Va
Van Muijen G.N.P.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (NOV-2000)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gu J
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Ju J.R.,
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Pred. No. 5.3e-06;
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  15,000
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Matches 37
MEDIINE-22388257; PubMed=12477932; DOI=10.1073/pnas.242603899; Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Paper T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Gantigen family B 1 protein (Prostate-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

MEDLINE=98316329; PubMed=9651357; DOI=10.1074/jbc.273.28.17618;

MEDLINE=98316329; PubMed=9651357; DOI=10.1074/jbc.273.28.17618;

Chen M.E. Lin S.-H., Chung L.W.K., Sikes R.A.;

"Isolation and characterization of PAGE-1 and GAGE-7: new genes expressed in the LNCaP prostate cancer progression model that share homology with melanoma-associated antigens.";

J. Biol. Chem. 273:17618-17625(1998).
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the European Bioinformatics Institute. There are no rest
use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
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Homo sapiens (Human).
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-!- SIMILARITY: Belongs to the GAGE
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;; BC062680; AAH62680.1; -.
;w; HGNC:14618; GAGED4.
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MEDLINE=99211468; PubMed=10197611; Brinkmann U., Vasmatzis G., Lee B., Pasta "Novel genes in the PAGE and GAGE family homology walking in the dbEST database.", Cancer Res. 59:1445-1448(1999).

Pastan I.; amily of tumor

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SEQUENCE FROM N.A. NCBI\_TaxID=9606;

SEQUENCE FROM N.

MEDLINE=22021429;

PubMed=11992404; DOI=10.1002/ijc.10371;

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae

Hominidae;

Euteleostomi;

Name=GAGED3; Synonyms=XAGE2; Homo sapiens (Human).

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RESULT 7
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28-FEB-2003 (Rel. 41, Last sequence update)
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G antigen family D 3 protein (XAGE-2 protei
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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EMBL; BC004861; AAH04861.1;
Genew; HGNC:4107; GAGEB1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Multigene family.
CONFLICT 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR008625; GAGE.
Pfam; PF05831; GAGE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 H-InvDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TISSUE SPECIFICITY: Isolated from prostate cancer cell lines; expression associated with progression to androgen insensitive phenotype. Expressed in normal testis and at lower level in no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              placenta.
SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GO:0006968; P:cellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SWISS-PROT entry is copyright. It is produced through sen the Swiss Institute of Bioinformatics and the EN
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38; Conser
                                                                                                                                                                                                                                                                                                                                               QMKLPAEGPEPEADSQEQVHPKTGCERGDGPDVQELGLPNPEEVKTPEEDEGQ 143
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                                                                                                                                                                                                                                                                                                                                                                           EGTPPIEERKVEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQ
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llarity 33.6%;
Conservative 1
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16134 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 133; DB 1;
Pred. No. 0.0021;
3; Mismatches 4
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                                                                                                                                                                                                                                                                           PRT;
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91ABA1E3B498DCA2
                                                                                                                                                                                                                                                                                                                                                                                                     -QEPEADSQELVQPKTGCEPGDGPDTKRVCLRNEE
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Brownstein M.J., Wedin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abrameon R.D., Mullahy S.J.,

A Richards S., McZwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., McZwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Richards S., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

B Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,

Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,

"Generation; and initial analysis of more than 15,000 full-length human

"Generation; Achin J.E., Jones S.J.M., Marra M.A.;

"Generation; Achin J.E., Jones S.J.M., Marra M.A.;
                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 40
              Q6NT33;
Q6NT33;
Q5-JUL-2004
05-JUL-2004
05-JUL-2004
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EMBL; AJ318892; CAC88125.1; JOINED.
EMBL; AJ318880; CAC83007.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for contenties requires a license arrows.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entities requires a license agreement (Some send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                  Multigene family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Proc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "The XAGE family of cancer/testis-associated genes: alignment and expression profile in normal tissues, melanoma lesions and Ewing's

    -1- SIMILARITY: Belongs to the GAGE family.

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
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                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mouse cDNA sequences.";
c. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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BC009232;
                                                                                                                                                                                                                                                                                                                                                                                                                      PF05831; GAGE;
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                                                                                                                                                                                                                                           MSARVRS---RSRGRGDGQEAPDVVAFVAP--GESQQEEPPTDNQDIEPGQERE---GTPP
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                  (TrEMBLrel. (TrEMBLrel.
                                                    (TrEMBLrel.
                                                                                      PRELIMINARY;
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27,
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                  Last
Last
                                                    Created)
                                                                                                                                                                                                                                                                                                                                 Score 131.5; DB Pred. No. 0.0021;
                                                                                                                                                                                                                                                                                                                                                                                    38C93332C5BA0E14 CRC64;
                                                                                                                                                                                                                                                                                                                 Mismatches
                  sequence update)
annotation updat
                                                                                      117
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                                                                                                                                                                                                                                                                                                                                                DB 1;
                  update)
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L. Shenmen C.M., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschal S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschal S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan K.J., Rabin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Wallano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodriguez S., Sanchez A.,
Ra Hiting M., Madan A., Young A.C., Sheychenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
A Jones S. T. Mayra M.A.
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Best Local S
Matches 32
                                                                                                                                                                                                                                                                                                                                         GGE8 HUMAN 9
Q9UEU5;
28-FEB-2003 (Rel
28-FEB-2003 (Rel
05-JUL-2004 (Rel
GAGE-8 protein (
Name=GAGE8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HUMAN
De Backer O., Arden K.C., Boretti M., Vantomm Czekay S., Viars C.S., De Plaen E., Brasseur Van den Bynde B., Boon T., van der Bruggen P. "Characterization of the GAGE genes that are human cancers and in normal testis.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jones S.J., Marra M.A.;
Jones S.J., Marra M.A.;
"Generation and initial analysis
and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:
                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro; IPR008625; GAGE. Pfam; PF05831; GAGE; 1. SEQUENCE 117 AA; 12885
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                        MEDLINE=99323388; PubMed=10397259;
                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                       NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
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(Rel. 41, Last sequence update)
(Rel. 44, Last annotation update)
in (G antigen 8).
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12885 MW;
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Primates;
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Pred. No. 0.00
7; Mismatches
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                                                                                                                                                                                                                                                       Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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                                                                           , Vantomme V.
Brasseur F., (
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Cancer Res.

59:3157-3165(1999)

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RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L.H., Schaefer C.F., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., AA, Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer AA, Rubin G.M., Hong L.,
RA Bitchenko L., Marusina K., Farmer AA, Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Griguez A.C., Grimwood J., Schmutz J., Myers R.M.,
"Generation and initial analysis of more than 15,000 full-length human did mouse cDNA sequences.",
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 40
                                                                                                                                                                          GGE4_HUI
Q13068;
Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                            15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
GAGE-4 protein (G antigen 4).
Name=GAGE4;
                                                                                                                                                                                                                  HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AF055473; AAC33676.1; -.
EMBL; BC018052; AAH18052.1; -.
Genew; HGNC:4106; GAGE8
GO; GO:0006968; P:cellular defense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entropean Bioinformatics Institute. There are no restude by non-profit institutions as long as its content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Proc. Nat1. Acau. set. Not expressed in normal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Multigene family
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam;
                                                          Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Brain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         histological origins.
SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            testis, but expressed by a large proportion of tumors of various
                                                                                                                                                                                              HUMAN
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                                                                                                                                                                                                                                                                                                                                                                                                                                            40;
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                                                                                                                                                                                                                                                                                            EGASAGQGPKPEADSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQ
                                                                                                                                                                                                                                                                                                                            EGTPPIEERKVEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQ 101
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                       Primates;
                                         Chordata;
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Pred. No. 0.
                     Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DD3052939E66F19A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             response;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            51;
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Best Local &
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15-JUL-1998 (Rel. 3
05-JUL-2004 (Rel. 4
GAGE-5 protein (G a
Name=GAGE5;
                                                                                                                                                                                                                                                                                                      Q13069;
15-JUL-1998
15-JUL-1998
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausmer R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
                                                                                                                                              Boon
                                                                                                                                                                                                                                                                                                                                           GGE5
                                                           TISSUE=Liver;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                         HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MIM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This
                                                                                   SEQUENCE
                                                                                                                      cytolytic
                                                                                                                                   "A new
                                                                                                                                                           van den Eynde
                                                                                                                                                                      MEDLINE=95378788;
                                                                                                                                                                                  TISSUE=Melanoma;
                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                   NCBI_TaxID=9606;
                                                                                                                                                                                                                                                         Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 not in normal tissues, except testis. -!- SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "A new family of genes coding for a cytolytic T lymphocytes on a human J. Exp. Med. 182:689-698(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=Melanoma;
MEDLINE=95378788;
van den Eynde B.,
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SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Multigene
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the European Bioinformatics Institute.

    -!- TÎSSUE SPECIFICITY: Expressed in a variety

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                                                                                                           Exp.
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ric T lymphocytes on a h
. Med. 182:689-698(1995)
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                                                                                                                                                                                                                                                                                                                                                                                                                             EKTPPNPKHAKTKEAGDGQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IPR008625;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    117 AA; 12956 MW;
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                                                                                   N.A.
                                                                                                                                                          В.,
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                                                                                                                                                           PubMed=7544395;
Peeters O., de
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                                                                                                                                                                                                                                  Chordata;
Primates;
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                                                                                                                                                                                                                                                                                                                                                                                                                              101
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                                                                                                                                   for an antigen
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                                                                                                                     an antigen recognized by autologous
melanoma.";
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RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Mitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
T. Generation and initial analysis of more than 15,000 full-length human
T. and mouse cDNA secmence ".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 31
 "A new family of genes coding for an antigen recognized cytolytic T lymphocytes on a human melanoma.";
J. Exp. Med. 182:689-698(1995).
                                                                          SEQUENCE FROM N.A.
TISSUE-Melanoma;
MEDLINE-95378788; PubMed=7544395;
van den Eynde B., Peeters O., de
                                                                                                                                                                                                                                                         Q13067;
15-JUL-1998 (Rel. 36, Created)
15-JUL-1998 (Rel. 36, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                              HUMAN
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Eukaryota; Metazoa; (
Mammalia; Eutheria; !
                                                                                                                                                                                                                                          GAGE-3 protein (G antigen 3).
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                                                                                                                                                                                                                              Name=GAGE3;
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                                                                                                                                                            NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genew; HGNC:4102;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and mouse cDNA sequences.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 not in normal tissues, except testis. SIMILARITY: Belongs to the GAGE family.
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                                                                                                                                                                                                                                                                                                                              HUMAN
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Primates;
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Pred. No. 0.011;
7; Mismatches 3
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                                                                                                                                                                                                                                                                                                                             PRT;
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                                                                               Backer
                                                                                                                                                                                                                                                                                                                             118 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 1; Length 117;
                                                                             Gaugler B.,
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RESULT 13
GGE HUMMA
ID GGE6
AC Q1307
DT 15-JI
DT 15-JI
DT GAGE.
GN Name
OS Homo
OC Euka.
OC Mamma
OX NCBII
RN [1]
RP SEQU
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Best Local S
Matches 31
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05-JUL-2004 (Re]
GAGE-6 protein
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Q13070;
                               This SWISS-PROT entry is copyright. It is produced through a collaboratic between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no was modified and this statement is not removed. Usage by and for commercia
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PubMed=1252270; DOI=10.1073/pnas.2436191100;

Salomon A.R., Ficarro S.B., Brill L.M., Brinker A., Phung Q.T.,

Ericson C., Sauer K., Brock A., Horn D.M., Schultz P.G., Peters B.C.;
                                                                                                                                                                                                                                                                                                                                                                            cytolytic T lymphocytes on a human melanoma."; J. Exp. Med. 182:689-698(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             van den Eynde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Melanoma;
MEDLINE=95378788;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
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-i- SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Name=GAGE6;
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Proc. Natl. Acad. Sci. U.S.A. 100:443-448(2003)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   A new family of genes coding
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                                                                                                                                                                                                                                                          TISSUE SPECIFICITY: Expressed in a variety not in normal tissues, except testis. SIMILARITY: Belongs to the GAGE family.
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requires a license agreement
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(Rel. 36, Last sequence update)
(Rel. 44, Last annotation update)
sin (G antigen 6).
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Primates;
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Pred. No. 0.011;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   for an antigen recognized
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RESULT 14
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15-JUL-1998 (Rel. 36, Last sequence update)
05-JUL-2094 (Rel. 44, Last annotation updat
GAGE-2 protein (G antigen 2).
                                                                                                                                                                    InterPro; IPR008625; GAGE.
Pfam; PF05831; GAGE; 1.
Antigen; Multigene family.
SEQUENCE 116 AA; 12786
                                                                                                                                                                                                                                                                                       EMBL; U19143; AAA8
Genew; HGNC:4099;
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MEDLINE=95378788;
van den Eynde B.,
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15-JUL-1998
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Pfam; PF05831; GAGE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "A new family of genes coding for an antigen recognized cytolytic T lymphocytes on a human melanoma.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; U19147; AAA82749.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
                                                                                                 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Exp. Med.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         T lymphocytes.
TISSUE SPECIFICITY: Expressed in a variety of not in normal tissues, except testis.
SIMILARITY: Belongs to the GAGE family.
                                                                                                                                                                                                                                                                 604244;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FUNCTION: Antigen, recognized on melanoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              604248; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96
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1 MSARVRSRSRGGGGQ-EAPDVVA------FVAPGESQQEEPPTDNQDIEPGQ--ER 48
                                                                        l Similarity 39; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HGNC: 4103; GAGE6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EVDPPNPEEVKTPEEGEKO 114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VAPGESQQEEPPTDNQDIEPGQ--EREGTPPIEERKVEGDCQEMDLEKTRSERGDGSDVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EKTPPNPKHAKTKEAGDGQ 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T lymphocytes on a h
ed. 182:689-698(1995)
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                                                                          Conservative
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                                                                                                                                                                                                                                                                                       AAA82745.1;
)99; GAGE2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=7544395;
Peeters O., de Backer O., Gaugler B.,
                                                                                                                                                                       family.
12786 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12892 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
                                                                                            22.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22.6%;
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                                                                                                 Score 120;
Pred. No. 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 122; DB 1
Pred. No. 0.013;
7; Mismatches
                                                                                                                                                                       DD305D5CA29AF19A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    234A865E3FCCCD06 CRC64;
                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          116
                                                                                                                                                                                                                                                                                                                                                                                   (See http://www.isb-sib.ch/announce,
                                                                                            DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
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                                                                                                                  Length 116;
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                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tumor tissues but
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a collaboration
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Q6NT46
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTISSUES-CR rescued clones;

XX MEDLINES-C2388257, PubMed=12477932; DOI=10.1073/pnas.242603899;

XX MEDLINES-C2388257, PubMed=12477932; DOI=10.1073/pnas.242603899;

XX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

XX Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XX Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hsieh F.,

XX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

XX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

XX Diatchenko L., Marusiana K., Farmer A.A., Rubin G.M., Hong L.,

XX Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

XX Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

XX Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

XX Bosak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,

XX Willalon D.X., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

XX Willalon D.X., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

XX Willalon D.X., Touchman J.W., Green B.D., Dickson M.C.,

XX Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

XX Tores G. T. Mayra M.A., Shalska U., Smailus D.E., Schnerch A., Schein J.E.,
                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q6NT46;
Q6NT46;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (APR-2004) to the EMBL; BC069397; AAH69397.1; InterPro; IPR008625; GAGE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and mouse cDNA sequences."
Proc. Natl. Acad. Sci. U.S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jones S.J., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (Human)
                                                                                                                         61
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                                                                                                                                                                                                                                                                                                         1 MSARVRSRSRGRGDGQ-EAPDVVA-----FVAPGESQQEEPPTDNQDIEPGQE--R
                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                               EGTPPIEERKVEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQ 101
                                                                                                                                                                                                                                               MSWRGRSTYRPRPRRYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEGQD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FROM N.A.
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                                                                                                                      EGASAGQGPKPEAHSQEQGHPQTGCECEDGPDGQEMDPPNPEEVKTPEEGEKQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               116 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rescued clones;
                                                                                                                                                                                                                                                                                                                                                                         Conservative
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Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               12785 MW;
                               24,
                                                                                                                                                                                                                                                                                                                                                                                                   22.2%;
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27,
27,
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                                                                                                                                                                                                                                                                                                                                                                                                   Score 120; DB 2
Pred. No. 0.019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Craniata; Vertebrata; 1
Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99:16899-16903 (2002)
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                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 2; Length 116;
                                                                                                                                                                                                                                                                                                                                                                         52;
                                                                                                                                                                                                                                                                                                                                                                            Indels
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; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Butterfield Y.S., A., Schein J.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      , Prange C.,
, Mullahy S.J.,
naratne P.H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scheetz T.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hulyk S.W.,
                                                                                                                                                                                                                                                                                                                                                                            12;
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Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                    Title:
Perfect score:
                                                                                                                                         Database
                                                                                                                                                                                                          Post-processing: Minimum Match
                                                                                                                                                                                                                                                                                                Total number of
                                                                                                                                                                                                                                                                                                                                                                                  Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OM protein - protein search, using sw model
                                                                                                                                                                                                                                            seq length: 0
seq length: 2000000000
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541
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                                                                                                                      A_Geneseq_16Dec04:*
1: geneseqp1980s:*
                                                                                                                                                                                                                                                                                                                                2105692 seqs, 386760381 residues
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                                                                                                                                                                        Maximum Match 100%
Listing first 45 su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.
geneseqp2001s:*
geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:*
geneseqp2004s:*
                                                                                    geneseqp1990s:*
geneseqp2000s:*
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                                                                                                                                                                                                                                                                                                                                                                  Gapext 0.5
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

. 25	24	23	22	21	- 20	19	18	17	16	15	14	. 13	12	11	10	9	8	7	0	ហ	4	ω	2		Result No.
181.5	181.5	181.5	•	•	181.5	219	95.	95.	95.	295.5	95.	95.	95.	77.	9	419	528	528	528	541	541	541	541	541	Score
ů.	33.5	ü	ü	Ü	٠		54.6	•	•	٠	54.6		54.6	•	•	77.4	197.6	97.6	97.6	۲.	100.0	۲	100.0	100.0	Query Match
111	111	111	111	111	111	41	109	109	109	109	109	109	109	118	87	89	99	99	99	102	102	102	102	102	Length
7	7	7	7	σ	4	8	8	8	7	7	7	7	w	s	w	N	œ	7	7	8	7	ر.	w	w	DB
ADJ55716	ADJ55745	ADG42676	ADG42643	АВJ19255	AAE08581	ABO57678	ADM76584	ADM76574	ADJ55746	ADJ55845	ADG42667	ADG42677	AAY83168	ADJ33678	AAY83167	AAY12447	ADM76592	ADJ55754	ADG42685	ADL90096	ADB75362	AAE14575	AAY52998	AAY83158	IJ
Adj55716 Human NOV	5 Peptid	Human	Adg42643 Human pro	Abj19255 Human can	Aae08581 Human NOV	Abo57678 Human gen	Adm76584 Human NOV					7 Human	168	8 Protei	167 PAGE1	7 Human	·	Adj55754 Peptide h	5 Human	٠,	2 Prosta		8 Human s	Aay83158 PAGE-4 po	cription

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
168.5				168.5						176	176	176	176.5	176.5	181.5	181.5	181.5	181.5	4. TRT
31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	32.5	32.5	32.5	32.6	32.6	33.5	33.5	33.5	33.5	33.5
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ADM76552	ADM78823	ADH71586	ADH71582	ADH71580 .	ADJ55718	ADG42749	ADG42645	AAE08593	AAE08582	ABJ19247	ABU56511	ABR48212	ADH71584	ADH71592	ADM76583	ADM76550	ADM78795	ADH71588	ADH/1590
Adm76552	Adm78823	Adh71586	Adh71582	Adh71580	Adj55718		Adg42645	Aae08593	Aae08582	Abj19247	Abu56511	Abr48212	Adh71584	Adh71592	Adm76583	Adm76550	Adm78795	Adh71588	Adh71590
Human NOV	Human NOV	Human pro	Human pro	Human pro	Human NOV	Huma full	Human pro	Protein e	Human NOV		Lung canc	Human bla	Human pro	Human pro	Human NOV	Human NOV	Human NOV	Human pro	Human pro

ALIGNMENTS

RESULT 1
AAY83158
ID AAY8 PAGE-4; MAGE; GAGE; reproduction; testis; prostate; fallopian tube; uterus; placenta; cancer; major histocompatibility complex; MHC; CTL; cytoboxic T lymphocyte; immunce response; antibody; drug delivery; WO200012706-A1 PAGE-4 polypeptide. AAY83158; AAY83158 standard; Homo sapiens. 24-JUL-2000 .mmunoconjugate. (first protein; entry) 102 ₿

09-MAR-2000.

31-AUG-1999; 99WO-US020046

01-SEP-1998; 98US-0098993P.

(USSH ) US DEPT HEALTH & HUMAN SERVICES.

Pastan I, Brinkmann U, Vasmatzis G,

Lee B;

WPI; 2000-237869/20. N-PSDB; AAZ93524.

Isolated PAGE-4 protein and peptide used for inducing a cytotoxic T lymphocyte response and for raising antibodies which can be used to detect the presence of PAGE-4 in cell samples or body tissues.

Disclosure; Fig 1, 63pp, English.

reproductive tissues e.g. prostate, testis, fallopian tube, uterus and placenta, as well as in prostate cancer, testicular cancer and uterine cancer. This expression pattern makes it a target for diagnosis and for vaccine based therapy of such neoplasms. An isolated PAGE-4 peptide which induces a cytotoxic T lymphocyte response when bound to a major histocompatibility complex (MHC) class I molecule or the isolated PAGE-4 protein can be used in immunogenic compositions to raise a cytotoxic T lymphocyte response against cells expressing PAGE-4 including cancer cells of the prostate, uterus and testis. The nucleic acids encoding PAGE PAGE-4 is a gene preferentially expressed in normal male and female

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RESULT 2
AAY52998
ID AAY5
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8,588,888,888,888
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Best Local Simi
Matches 102;
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02 JUN-1998;
22-JUL-1998;
31-JUL-1998;
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                                                                                   WPI; 2000-052937/04.
N-PSDB; AAZ33316.
                                                                                                                                                                                                                                                                                                                                                                                               Human; secreted protein; nutritional; cytokine; cell proliferation; differentiation; immune stimulating; vaccine; suppression; haematopoiesis regulation; tissue growth; activin; inhibin; chemotactic; chemokinetic; haemostatic; thrombolytic; receptor; ligand; anti-inflammatory; cadherin; tumour invasion suppressor;
                         Claim 9;
                                               placenta,
                                                                                                                      Diblasio-Smith
                                                                                                                               Merberg D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human secreted
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11-AUG-1998;
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                                                                                                                                                                     (GEMY ) GENETICS
                                              polynucleotides encoding secreted human centa, adult retina, fetal brain, fetal.
                                                                                                                                                                                                                                                                                                                                                                sapiens
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                       Page 360-361; 492pp; English
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98US-0087645P.

98US-0093712P.

98US-0094935P.

98US-0095880P.

98US-0096068P.

99US-00306111.
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Widom /
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Pred. No. 1.7e-49;
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                                                                                                                                Steininger RJ,
                                                          proteins,
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present invention

describes new human secreted proteins which

were

The invention relates to a method of diagnosing prostatic disease in a patient, which comprises assaying for the expression of JT463726 protein or nucleic acid in a sample. The differential expression of the protein or nucleic acid compared to normal prostate tissue is an indication of

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RESULT 3
AAE14575
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Best Local S
Matches 102
                                                                                                                            Methods for diagnosing prostatic diseases in a patient, e.g. ben prostatic hyperplasia, or screening compounds for treating these diseases, comprises assaying for the expression of JT463726 prot
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo
                                                                                Claim
                                                                                                                                                                                                   N-PSDB;
                                                                                                                                                                                                                                                  Munger WE,
                                                                                                                                                                                                                                                                                                                     31-JUL-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                         WO200210338-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JT463726; prostate; benign prostatic hyperplasia; BPH; human; GAGE-like;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human differentially expressed BPH protein JT463726.
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                                                                                                                nucleic acid in a sample
                                                                                                                                                                                                                                                                                     (GENE-) GENE LOGIC INC.
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                                                                             48pp; English.
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Pred. No. 1.7e-49;
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RESULT 4
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Matches 102
The invention relates to newly discovered cancer markers associated with the cancerous state of prostate cells. Also disclosed is a method of assessing whether a patient is afflicted with prostate cancer. The method of the invention involves assessing whether a patient is afflicted with prostate cancer by comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control non-prostate cancer sample, where a significant increase in the level of expression of the marker in the patient sample and the normal level of expression of the marker in the patient sample and the normal level indicates that the patient is afflicted with prostate cancer.
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22-AUG-2001; 2001US-0314356P.
25-SEP-2001; 2001US-03220P.
12-DEC-2001; 2001US-0341746P.
05-MAR-2002; 2002US-0362158P.
                                                                                                                                                                                                                                                                                                                             Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid molecule, useful for diagnosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-248033/24.
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Pred. No. 1.7e-49;
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                                                                                                          Sequence
                                                                                                                                                          The present invention relates to a method for generating an immune response to an antigen in a patient. The method comprises administering to the patient an immunoglobulin (Ig) or its portion where the Ig has at least one peptide epitope of the antigen attached to the Ig or its portion and administering the immunoglobulin or its portion in conjunction with a RNA segment. The present sequence is an antigen sequence, used to illustrate the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                              Generating an immune response to an antigen, useful for generating desired T cell responses comprises administering an immunoglobulin one peptide epitope of the antigen attached to the immunoglobulin.
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                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Fig 1L; 154pp; English.
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14-MAR-2003; 2003WO-US007995
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23-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human; NOVX; neurogenesis; cell differentiation; cell motility; cell proliferation; haematopoiesis; angiogenesis; proliferative disorder; cancer; mastocytosis; immune disorder; hepatic disorder; cirrhosis; viral infection; AIDS; hepatitis; neuro-olfactory; trauma; surgery; neoplastic; adenocarcinoma; lymphoma; asthma; Crohn's disease; multiple sclerosis; Albright hereditary osteodystrophy; cytostatic; immunosuppressive; hepatotropic; virucide; anti-HIV; antiinflammatory; vulnerary; antiasthmatic; neuroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NOVX and for identifying a potential therapeutic agent for use in treatment of a pathology, where the pathology use related to aberrant expression or aberrant physiological interaction of NOVX. NOVX NA or the antibody is useful for treating or preventing a pathology associated with NOVX e.g. cancer, immune disorder, hepatic disorder, trauma, HTV, Parkinson's disease, and Allaheimer's disease. The present sequence represents a protein showing sequence similarity to a NOVX
(MALY/)
(TCHE/)
(PADI/)
(TAUP/)
                                                                                                                                                                                                                      02-JAN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-APR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peptide homologous to a fragment of a human NOV3 protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADJ55754 standard; peptide; 99
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                            MALYANKAR U
TCHERNEV V T
PADIGARU M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                2000US-0184275P.
2000US-018449P.
2000US-018449P.
2000US-0184744P.
2000US-0194744P.
2000US-0215859.
2000US-0224157P.
2000US-023405P.
2000US-0236060P.
2001US-0259414P.
2001US-0259414P.
2001US-0259414P.
2001US-0753439.
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Pred. No. 4e-48;
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RESULT 8
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Considering the continuous contin
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Best Local S
Matches 99
                                  antiinflammatory; neuroprotective; nootropic; antiparkinsonian; gene therapy; vaccine; NOVX-associated disorder; cancer; immune disorder; viral infection; AIDS; hepatitis; neurological disorder; Alzheimer's disease; Parkinson's disease; olfactory disorder;
                                                                                                                                                                                                            03-JUN-2004
                                                                                                                                                                  Human NOV3
                                                                                                                                                                                                                                                                                     ADM76592 standard; protein; 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention relates to a novel nucleic acids, and encoded thereof, which have properties related to the stimulation of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-900202/82
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(ELLE/)
(MACD/)
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(GUOX/)
(SPAD/)
(BOLD/)
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                                                                                                                     cytostatic; immunosuppressive; virucide; anti-HIV; hepatotropic;
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MACDOUGALL J
SMITHSON G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Spaderna
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BOLDOG F L.
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                                                                                                                                                            protein-related protein fragment SeqID46.
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                   tissue
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                   typing;
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Pred. No.
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                   NOV3; human
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1 K, Macdoug
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RESULT 9
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02-JAN-2001; 2001US-0259414P.
18-JAN-2001; 2001US-0262454P.
14-FEB-2001; 2001US-00783429.
03-JUL-2001; 2001US-00898953.
03-OCT-2001; 2001US-00970607.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gerlach VL,
Rastelli L,
                                                                                                                                                                                                                                                                                                                                                                                                                                        compounds with a cytostatic, immunosuppressive, virucide, anti-HIV, hepatotropic, antiinflammatory, neuroprotective, nootropic or antiparkinsonian activity. In addition, the disclosed sequences may be useful for gene therapy or development of a vaccine. The NOVX polypeptide, nucleic acid or antibody is useful in the manufacture of a medicament for treating a syndrome associated with a human disease. These are used in diagnosing, treating or preventing NOVX-associated disorders such as cancer, immune disorders, viral infections (for example AIDS or hepatitis), neurological disorders (for example AIZseimer's disease or parkinson's disease) or olfactory disorders. The nucleic acids are
                       Human 5'
                                                     17-JUN-1999
                                                                                                         AAY12447 standard;
                                                                                                                                                                                                                                                                                                                                            Sequence 99
                                                                                                                                                                                                                                                                                                                                                                                                  further used as hybridisation probes, in chromosome mapping, tiss typing, preventive medicine, and pharmacogenomics. The present se is that of a human protein fragment which was used to demonstrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New NOVX polypeptides and nucleic acid molecules preventing or treating NOVX-associated disorders Alzheimer's disease), and in chromosome mapping,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI;
                                                                                AAY12447;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   which encode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure;
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                                                                                                                                                                                                                                                                                                                                                                                     nomology between the NOVX proteins of the invention and other human
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                                                                                                                                                                                                                                                                                                    Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention relates to novel NOVX polypeptides and the DNA sequences hencode them. The invention may be useful for the development of
                                                                                                                                                                            61
                                                                                                                                                                                                      64
                                                                                                                                                                                                                                                                                        99;
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Herrmann
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                                                                                                          89
                                                                                                                                                                                                                                                                                       Score 528; DB; Pred. No. 4e-4
0; Mismatches
                                                                                                                                                                                                                                                                                       0,
                         SEQ ID NO:478.
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4e-48;
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Human; secreted protein; EST; expressed sequence tag; diagnosis;

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RESULT 10
AAY83167
ID AAY83
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Best Local S
Matches 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proliferation/differentiation activity, haematopoiesis regulating activity, tissue growth regulating activity, reproductive hormone regulating activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ ligand activity, anti-inflammatory activity, tumour inhibition activity or other activities. The products can be used in forensic, gene therapy and chromosome mapping procedures. The sequences can also be used for obtaining corresponding promoter sequences. The nucleic acids encoding the signal peptide can be used for directing extracellular secretion of a polypeptide or the insertion of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human secreted proteins, and encode the proteins given in AAY12261 (AAY12514, respectively. The proteins given represent the signal per and an N-terminal fragment of a secreted protein. The nucleic acid sequences can be used for producing secreted human gene products. The can also be used to develop products for diagnosis and therapy. The proteins obtained may have cytokine activity, cell
PAGE-4; MAGE; GAGE; reproduction; testis; prostate; fallopian tube;
                                    PAGE1 polypeptide.
                                                                         24-JUL-2000
                                                                                                                                           AAY83167 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               forensic; gene therapy; chromosome mapping; signal peptide; upstream regulatory sequence; cytokine activity; cell proliferation; differentiation; haematopoiesis regulation; tissue growth regulation; reproductive hormone regulation; chemotactic; chemokinetic; haemostatic; thrombolytic; anti-inflammatory; tumour inhibition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acids encoding human secreted proteins - obtained from cDNA libraries prepared from e.g. liver, ovary, brain, prostate, kidney, lung, umbilical cord, placenta and colon tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAX41094 to AAX41347 represent 5' expressed sequence tags (ESTs) for human secreted proteins, and encode the proteins given in AAX12261 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 27; Paģe 778; 824pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          31-ЛИТ-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1999-153778/13
                                                                                                                                                                                                                                      89
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                                                                                                                                                                                                                                                                                                                                                                              79;
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                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                        VKEKTPPNPKHAKTKEAGDG 100
                                                                                                                                                                                                                                                                                                                            VVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVEGDCQEMDLEKTRSERGDGSD 80
                                                                                                                                                                                                                                                                                                        VVAFVAPGESQQEEPPTDNQD1EPGQEREGTPP1EERKVEGDCQEMDLEKTRSERGDGSD
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ÃA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               into a membrane, or importing a polypeptide into a cell
                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                         (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       97US-00905135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98WO-IB001222
                                                                                                                                           protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ç
                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                         77.4%;
98.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Duclert A,
                                                                                                                                                                                                                                                                                                                                                                            0,
                                                                                                                                                                                                                                                                                                                                                                                             Score 419; DB 2;
Pred. No. 1.3e-36;
                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lacroix B;
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                                                                                                                                                                                                                                                                                                                                                                                                          Length 89
                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 11
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                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vaccine based therapy of such neoplasms. An isolated PAGE-4 peptide which induces a cytotoxic T lymphocyte response when bound to a major histocompatibility complex (MHC) class I molecule or the isolated PAGE-4 protein can be used in immunogenic compositions to raise a cytotoxic T lymphocyte response against cells expressing PAGE-4 including cancer cells of the prostate, uterus and testis. The nucleic acids encoding PAGE 4 or PAGE-4 peptide fragments can also be used in these compositions. Antibodies against PAGE-4 and its peptide fragments can be used in detecting the presence of PAGE-4 and PAGE-4 coding sequences in cell samples or body tissues. The presence of PAGE-4 in tissues which are not related to reproduction can be indicative of the spread of cancerous reproductive tissue. PAGE-4 can also be used to raise antibodies which are then used as the targeting group of immunoconjugates comprising delicious waters and the papelications. This has applications for drug delicious waters.
                                                                 22-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 87 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isolated PAGE-4 protein and peptide used for inducing a cytotoxic T lymphocyte response and for raising antibodies which can be used to detect the presence of PAGE-4 in cell samples or body tissues.
                                                                                                                                     ADJ33678 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence similarity with PAGE-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         placenta, as well as in prostate cancer, cancer. This expression pattern makes it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAGE-4 is a gene preferentially expressed in normal male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 1b; 63pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-SEP-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       uterus; placenta; cancer; major histocompatibility complex; MHC; CTL; cytotoxic T lymphocyte; immunce response; antibody; drug delivery;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    09-MAR-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reproductive tissues e.g. prostate, testis, fallopian tube, uterus and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (USSH ) US DEPT HEALTH & HUMAN SERVICES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immunoconjugate.
                                                                                                                                                                                                                                                 59 VEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
                                                                                                                                                                                                                           49
                                                                                                                                                                                                                                                                                                                                                                     80;
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                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                  MSARVRSRSRGRGDGQEAPDVVAFVAPGESQQEEPPTDNQ--DIEPGQEREGTPPIEERK 58
                                                                                                                                                                                                                                                                                             MSARVRSRSRGRGDGQEAPDVVAFVAPGESQEEEPPTDNQGPDMEAFQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Brinkmann
                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                 (first entry)
                                                                                                                                                                                                                          QELDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0098993P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This sequence is of the PAGE1 polypeptide which shares
                                                                                                                                   protein;
                                                                                                                                                                                                                                                                                                                                                                                    72.4%;
76.9%;
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                                                                                                                                                                                                                                                                                                                                                                   Score 391.5; DE
Pred. No. 1e-33;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a target for diagnosis and for
                                                                                                                                                                                                                                                                                                                                                                                                    DB 3;
                                                                                                                                                                                                                                                                                                                                                                   2:
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                                                                                                                                                                                                                                                                                                                                                                                                      87;
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                                                                                                                                                                                                                                                                                                                                                                     19;
                                                                                                                                                                                                                                                                                                 48
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cytostatic; immunomodulator; antimicrobial; anti-inflammatory; vulnerary;

Protein of the invention SEQ ID NO:655

neuroprotective; gene therapy; cancer; bacterial infection; fungal infection; autoimmune disorder; inflammation; Parkinson's disease;

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                                                                                                                                                                                                                                   The invention relates to a novel isolated polynucleotide, which has a CC nucleotide sequence comprising one of 432 sequences described in gpecification (but not fully defined), or their mature protein coding specification (but not fully defined), or their mature protein coding portion, active domain coding portion or complementary sequences. A CC protein of the invention has cytostatic, immunomodulator, antimicrobial, anti-inflammatory, vulnerary, and neuroprotective activity. A CC polynucleotide of the invention may have a use in gene therapy. The polynucleotides and polypeptides encoded by them are useful in therapy compared the polypeptides or complementary sequences. The polynucleotides and polypeptides encoded by them are useful in cc therapeutic (e.g. for treating cancers, bacterial or fungal infection, autoimmune disorders, inflammations, parkinson's disease, allergies or complements of matisense therapy, gene therapy, forensics, gene mapping, idagnostic and research methods. In particular, they are useful in antisense therapy, gene therapy, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits, to assess biodiversity, or to produce many types of data and composition of the sequences. The polypeptides may be used to generate an antibody that specifically binds the polypeptide. These antibodies are useful for detecting or quantifying the polypeptide in the tissue. The polypeptides are also useful as molecular weight markers or as food supplements. The sequences shown in ADJ33672-ADJ33887 crepresent proteins of the invention.
                                                                                                                                   Query Match
Best Local S
Matches 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-MAY-2000;
22-SEP-2000;
24-OCT-2000;
17-NOV-2000;
                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polynucleotides for treating cancers, infection, autoimmune disorders, inflammations, Parkinson's disease, allergies or wounds, and for diagnostic or research methods.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 655; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-062370/08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-MAY-2001, 2001WO-US014826
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            allergy; wound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HYSE-) HYSEQ INC.
 81
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                                                                                                                                     . Similarity 79; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Asundi V,
Zhao QA, G
                                                                                                                                                                                                            118
                     MDLEKTRSERGDGSDVKEKTPPN-PKHAKTKEAGDGQP 102
MDLEKTRSERGDGSDVKEKTPTXILKHAKTKEAGDGQP 118
                                                                 RGRGDGPGGLPDVVAIPWPPRXILSQEEHHPTDNQDIEPGQEREGTPPIEERKVEGDCQE
                                                                                               RGRGDGQEA-PDVVAFVAPGE---SQQEEPPTDNQDIEPGQEREGTPFIEERKVEGDCQE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000US-00667298.
2000US-00695781.
2000US-00715869.
2000US-00775330.
                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note= "Encoded by stop codon"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     note= "Encoded by stop codon"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Goodrich
                                                                                                                                                    69.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RW
                                                                                                                                   Score 377.5; DB 5;
Pred. No. 4.5e-32;
1; Mismatches 13;
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Liu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ren F, Zhang
, Drmanac RT,
                                                                                                                                                                  DB 5;
                                                                                                                                                                    Length
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, Wehrman
                                                                                                                                                                      118;
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                                                                                                                                                                                                                                                                                                                                                                                                                        CC PAGE-4 is a gene preferentially expressed in normal male and female CC reproductive tissues e.g. prostate, testis, fallopian tube, uterus and CC placenta, as well as in prostate cancer, testicular cancer and uterine CC cancer. This expression pattern makes it a target for diagnosis and for C vaccine based therapy of such neoplasms. An isolated PAGE-4 peptide which CC induces a cytotoxic T lymphocyte response when bound to a major CC protein can be used in immunogenic compositions to raise a cytotoxic T lymphocyte response against cells expressing PAGE-4 including cancer CC ells of the prostate, uterus and testis. The nucleic acids encoding PAGE C antibodies against PAGE-4 and its peptide fragments can be used in these compositions. CC Antibodies against PAGE-4 and its peptide fragments can be used in these compositions. CC samples or body tissues. The presence of PAGE-4 coding sequences in cell c samples or body tissues. The presence of PAGE-4 in tissues which are not created to reproduction can be indicative of the spread of cancerous c reproductive tissue. PAGE-4 can also be used to raise antibodies which are then used as the targeting group of immunoconjugates comprising c sequence similarity with PAGE-4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                            Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                          Sequence 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Isolated PAGE-4 protein and peptide used for inducing a cytotoxic lymphocyte response and for raising antibodies which can be used detect the presence of PAGE-4 in cell samples or body tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGE-4; MAGE; GAGE; reproduction; testis; prostate; fallopian tube; uterus; placenta; cancer; major histocompatibility complex; MHC; CT cytotoxic Tlymphocyte; immunce response; antibody; drug delivery;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 1b; 63pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAY83168;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2000-237869/20.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAGE2 polypeptide
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   99
                                                       59
                                                                                                                                                                                                                                                   64;
                                                                                                                           9
                                                                                                                                                                                                                                                                                Similarity
                                                             VEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
VEGDCQEMALLKIEDEPGDGPDVREGIMPTFDLTKVLEAGDAQP
                                                                                                                                                                               RVRSRSRGRGDGQEAPDVVAFVAPGE-----SQQEEPPTDNQDIEPGQEREGTPPIEERK 58
                                                                                                                       RARSQSSERGNDQESSQPVGSVIVQEPTEEKRQQEEPPTDNQDIEPGQEREGTPPIEERK
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                                                                                                                                                                                                                                                   Conservative
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Pred. No. 2e-
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RESULT 13
ADG42677
The invention relates to an isolated NOVX polypeptide comprising mature form of protein having a fully defined sequence ADG4265ADG42659, NOV8 and NOV10, a variant of mature form of the protein, where any amino acid in mature protein changed to a different amino acid, provided that not more than 50% of amino acid in sequence of mature protein are so changed, or its fragment. Also included are an isolated nucleic acid molecule (NA) encoding NOVX (or portion or variant), a vector comprising NOVX (or portion or variant), a vector comprising NOVX NA in a sample, a pharmaceutical composition (comprising NOVX, NOVX NA or the antibody and carrier) and a kit comprising NOVX proteins showing homology to GAGE (G-antigen) proteins (NOV1-4), interferons (NOV5 and 6), G protein-coupled receptors (NOV7), Mast cell proteases (NOV8 and NOV10-13) and hepatocyte nuclear factors (NOV9). The antibody is useful for determining the presence or amount of treatment of a pathology, where the pathology use related to aberrant expression or aberrant physiological interaction of NOVX. NOVX NA cancer, immune disorder, hepatic disorder, trauma, HIV, Parkinson's disease, and Alzheimer's disease. The present corretein (or fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-FEB-2000;
15-FEB-2000;
15-FEB-2000;
22-FEB-2000;
23-FEB-2000;
23-FEB-2000;
24-FEB-2000;
13-APR-2000;
10-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; NOVX; GAGE-like protein; interferon; GPCR; mast cell hepatocyte nuclear factor; cancer; immune disorder; hepatic trauma; HIV; Parkinson's disease; Alzheimer's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated NOVX polypeptide useful for treating cancer, immune disorders, hepatic disorders, AIDS, Parkinson's disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human PAGE-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADG42677 standard; protein; 109
                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 38; 155pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-900615/82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAY-2002; 2002US-00139854
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MAJUMDER
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2000US-0183896p;
2000US-0183896p;
2000US-0184275P,
2000US-0184492P;
2000US-018449744P,
2000US-0194744P,
2000US-0194744P,
2000US-0234157P,
2000US-0234154P,
2000US-0259414P,
2001US-0259414P,
2001US-0262454P,
2001US-0262454P,
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disorder;
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Best Local S
Matches 64
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13-APR-2000;
10-AUG-2000;
18-SEP-2000;
27-SEP-2000;
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15-FEB-2000;
22-FEB-2000;
The invention relates to an isolated NOVX polypeptide comprising mature form of protein having a fully defined sequence ADG42655ADG42659, NOV8 and NOV10, a variant of mature form of the protein, where any amino acid in mature protein changed to a different amino acid, provided that not more than 50% of amino acid in sequence of mature protein are so changed, or its fragment. Also included are not isolated nucleic acid molecule (NA) encoding NOVX (or portion or variant), a vector comprising NOVX NA, a cell comprising the vector, an anti-NOVX antibody, determining (MI) the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 109 AA;
                                                                                                                   Disclosure; SEQ ID NO 28; 155pp; English.
                                                                                                                                              Novel isolated NOVX polypeptide useful for treating cancer, disorders, hepatic disorders, AIDS, Parkinson's disease.
                                                                                                                                                                                                                                                                              02-JAN-2001
18-JAN-2001
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23-FEB-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                trauma; HIV; Parkinson's disease; Alzheimer's disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; NOVX; GAGE-like protein; interferon; GPCR; mast cell
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                                                                                                                                                                                                                                        (MAJU/) MAJUMDER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VEGDCQEMALLKIEDEPGDGPDVREGIMPTFDLTKVLEAGDAQP
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2000US-01847497P.
2000US-0184744P.
2000US-0197083P.
2000US-0224157P.
2000US-023405P.
2000US-0235060P.
2001US-0259414P.
2001US-0262454P.
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2000US-0182733P.
2000US-0183896P.
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disorder;
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RESULT 15
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Best Local :
   15-FEB-2000;

15-FEB-2000;

25-FEB-2000;

23-FEB-2000;

23-FEB-2000;

23-FEB-2000;

23-FEB-2000;

23-FEB-2000;

13-APR-2000;

11-AUG-2000;

11-AUG-2000;

11-AUG-2000;

11-AUG-2000;

11-AUG-2000;

11-AUG-2000;

11-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                      human; NOVX; neurogenesis; cell differentiation; cell motility; cell proliferation; haematopolesis; angiogenesis; proliferative discencer; mastocytosis; immune disorder; hapatic disorder; cirrhosis; viral infection; AIDS; hepatitis; neuro-olfactory; trauma; surgery; neoplastic; adenocarcinoma; lymphoma; asthma; Crohn's disease; multiple sclerosis; Albright hereditary osteodystrophy; cytostatic; immunosuppressive; hepatotropic; virucide; anti-HIV; antiinflammato:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAY-2004
                                                                                                                                                                                                                                                                 22-APR-2002; 2002US-00131409
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                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                           vulnerary; antiasthmatic; neuroprotective.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptide homologous to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADJ55845
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2000US-0182733P
2000US-018427SP
2000US-018427P
2000US-0184497P
2000US-0184797P
2000US-0197083P
2000US-0197083P
2000US-0197083P
2000US-0215855P
2000US-023405P
2000US-023405P
2000US-023406P
2000US-0236060P
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2000US-0182724P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a fragment of a human NOV1 protein SeqID
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Pred. No. 2e-23;
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Job time :

Search completed: August

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                                                                                                                                                                                                                                        CC or physiological responses in a cell, tissue, organ or organism.

CC specifically, it refers to the use of biologically active fragments for conditions to the use of biologically active fragments for conditions. The present invention describes novel conditions. The present invention describes novel conditions as well as methods to identify small molecules that con be used to modulate or inhibit various processes including contended to medicaments of the treatment of the manufacture of medicaments to treat proliferative disorders (e.g. cirrhosis), immune disorders, hepatic disorders (e.g. cirrhosis), collactory system (e.g. AIDS and hepatitis), disorders of the neuro-collactory system (e.g. trauma, surgery and/or neoplastic disorders), collactory system (e.g. trauma, surgery and/or neoplastic disorders), and denocarcinoma, lymphoma, asthma, conditions, when the solutions of the neuro-collactory system (e.g. trauma, surgery and/or neoplastic disorders), and denocarcinoma, lymphoma, asthma, conditions of the neuro-collactory system (e.g. trauma, surgery and/or neoplastic disorders), and denocarcinoma, lymphoma, asthma, conditions of the neuro-collactory system (e.g. trauma, surgery and/or neoplastic disorders), and denocarcinoma, lymphoma, asthma, conditio
                                                                                                                                                         Query Match
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Matches 64
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14-FEB-2001;
03-JUL-2001;
                                                                                                                                                                                                                                      Sequence 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention relates to a novel nucleic acids, and encoded polypeptides thereof, which have properties related to the stimulation of biochemical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides useful for treating e.g. cancer and mastocytosis, immune disorders, hepatic disorders, viral infections, asthma.
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(GUOX/)
(SPAD/)
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(TCHE/)
(PADI/)
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(ELLE/)
(MACD/)
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                                     59 VEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP
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GUO X.
SPADERNA S K.
SPADERNA S K.
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m G;
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ELLERMAN K.
MACDOUGALL J
SMITHSON G.
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TCHERNEV V T
PADIGARU M.
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VEGDCQEMALLKIEDEPGDGPDVREGIMPTFDLTKVLEAGDAQP
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Pred. No. 2e-23;
4; Mismatches
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FL, Gerlach
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Result
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Maximum Match
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hypothetical prote	neurofilament prot	hypothetical prote	ryanodine receptor	A-kinase anchor pr	related to actin-i	hypothetical prote	chromogranin B pre	circumsporozoite p	circumsporozoite p	translation initia	CarD protein - Myx	· probable secreted	cellulase (EC 3.2.	hypothetical prote	submandibular glan

# ALIGNMENTS

H83736
subtilisin-type alkaline proteinase (EC 3.4.21.-) apr precursor [similarity]
C;Species; Bacillus halodurans
C;Date: 01-Dec-2000 #sequence\_revision 01-Dec-2000 #text\_change 09-Jul-2004
C;Accession: H83736
C;Accession: H8

(EC 3.4.21.-) apr precursor [similarity] -

Bacillus

Nucleic Acids Res. 28, 4317-4331, 2000 A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans A;Reference number: A83650; MUID:20512582; PMID:11058132

Masui, N.; Fuji,

ሜ :

and Hire

A; Status: preliminary A; Accession: H83736

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E4 protein - human papillomavirus type 8
C;Species: human papillomavirus type 8
C;Date: 30-Jun-1987 #sequence_revision 30-Jun-1987 #text_change
C;Accession: A03677
R;Fuchs, P.G.; Iftner, T.; Weninger, J.; Pfister, H.
J. Virol. 58, 626-634, 1986
A;Title: Epidermodysplasia verruciformis-associated human papill
A;Reference number: A93019; MUID:86200410; PMID:3009874
A;Accession: A03677
A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-229 <FUC>
A;Cross-references: UNIPROT:P06425; GB:M12737; NID:g333074
A;Ote: this ORF is not annotated in GenBank entry PPH8CG
C;Superfamily: papillomavirus type 5 E4 protein
C;Keywords: early protein
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C;Keywords: hydrolase; serine proteinase
F;1-28/Domain: signal sequence #status predicted <SIG>
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A;Residues: 1-792 <STO>
A;Residues: 1-792 <STO>
A;Cross-references: UNIPROT:Q9KF03; GB:AP001509; GB:BA000004; NID:g10173176; PIDN:BAB044
A;Experimental source: strain C-125
C;Genetics:
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A;Residues: 1-524 <GON>
A;Cross-references: UNIPROT:Q04870; EMBL:Z17426; NID:g65029; PIDN:CAA78999.1; PID:g65030
                                                                                                                                                                                                                                                                                                                 R;Gong, D.W.; Hasegawa, S.; Wada, K.; Roeder, R.G.; Nakatani, Y.; Horikoshi, Nucleic Acids Res, 20, 6736, 1992
A;Title: Elucidation of three putative structural subdomains by comparison of A;Reference number: S35551; MUID:93128122; PMID:1480494
A;Accession: S35551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein G5 - slime mold (Dictyostelium discoideum)
C;Species: Dictyostelium discoideum
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T18283
R;Rieben Jr., W.K.; Gonzales, C.M.; Gonzales, S.T.; Pilkington, K.J.; Kiyosawa,
Genetics 148, 117-1125, 1998
A;Title: Dictyostelium discoideum nuclear plasmid Ddp5 is a chimera related to t
A;Reference number: Z14684; MUID:98198836; PMID:9539429
A;Accession: T18283
A;Status: preliminary; translated from GB/EMBL/DDBJ
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C;Genetics:
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A; Residues: 1-325 < RIE>
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Best Local S
Matches 27
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Best Local
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                                                      GDFEGQE----VDYMSDESSSDEELP---GKIKPAKEEEGPKGLDEQSESS--EESEEEK
                                                                          GRGDGQEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVEGDCQEMDLEK 70
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----SERGDGSDVKEKTPPNPKHAKTK 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EEEEEETPAVSEEEKEEEEEEEETPAVSEEEKEEEEQEEDKEKDKEKKIEEDTETGKKK 248
                                                                                                                           Conservative
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31.0%; Pred
13;
                                                                                                                                          17.5%;
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27.1%;
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                                                                                                                                          Score 94.5;
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score
Pred.
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No. 0.29;
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                    99
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                                                                                                                                          .99;
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                                                                                                                          33;
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                                                                                                                                                          Length
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                                                                                                                          13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23;
                                                                                                                        Gaps
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RESULT
S70358
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R;Bejarano, L.A.; Valdivia, M.M.
Biochim. Biophys. Acta 1307, 21-25, 1996
A;Title: Molecular cloning of an intronless
A;Reference number: S70358; MUID:96254058; F
A;Accession: S70358
                                                                                                                                                                                                                                                                                                                                                                                                                                centromere protein B - Chinese hamster
C;Species: Cricetulus griseus (Chinese hamster)
C;Date: 21-Apr-1997 #sequence_revision 09-May-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues; 1-1791 <RIC> A;Cross-references: UNIPROT:060382; EMBL:AC004493;
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                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 1-606 <BEJ>
A;Cross-references: UNIPROT:P48988; EMBL:U20951; NID:g836955; PIDN:AAB06494.1; PID:g8369
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Map position: 16
A; Introns: 1610/2;
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A; Accession: T02345
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein KIAA0324 - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 05-Mar-1999 #sequence_revision 05-Mar-1999 #text_change 09-Jul-2004
C;Accession: T02345
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                                                                                                                                                Matches
                                                                                                                                                                                     Query Match
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441
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                                   62 DCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKE 96
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EGEEVGEEEEVEEEGDESDEEEEEEEEEEESSSE
                                                                                                           RSRGRGDGQEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVE-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RSRSRGRGDGQEAPDVVAF----VAPGESQQEEPPTDNQDIEPGQEREGT----
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                                                                                                                                                Conservative
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25.5%;
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Pred. No. 5;
                                                                                                                                                                  Score 92; DB Pred. No. 1.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL: AC004493; NID: g2996648; PIDN: AAC08453.1;
                                                                                                                                                  Mismatches
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                                                                        -EEEEEEEEEEGEGEGEEEEEEEGEEEGG
                                                                                                                                                                                   DB 2;
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                                                                                                                                                42;
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                                                                                                                                                                                   Length 606
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                                                                                                                                                                                                                                                                                                                                                             hamster
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surface protein rhoptry ROP1 precursor - Toxoplasma gondii
c;Species: Toxoplasma gondii
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text\_ci
C;Accession: A58938; A45644; S37697

10-Sep-1999 #text\_change

09-Jul-2004

A58938 RESULT 7

S

67 DLEKTRSERGDGSDVKEK-TPPNPKHAKTKEAGDGQP 102

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A;Cross-references: EMBL:X72388; NID:g287751; PID:g287752
R;Gounari, F.; Merdes, A.; Quinlan, R.; Hess, J.; FitzGerald, P.G.; Ouzounis, C.A.; Geo: J. Cell Biol. 121, 847-853, 1993
J. Cell Biol. 121, 847-853, 1993
A;Title: Bovine filensin possesses primary and secondary structure similarity to intermed A;Reference number: A40690; MUID:93260017; PMID:8491777
A;Accession: A40690
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 8
832103
filensin - |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Alternate names: intermediate filament protein
C;Species: Bos primigenius taurus (cattle)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_chang
C;Accession: $32103; A40690
R;Gounari, F., Merdes, A.; Quinlan, R.; Hess, J.; FitzGerald,
submitted to the EMBL Data Library, March 1993
A;Description: Bovine filensin possesses primary and secondary
A;Reference number: $32103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,Molecule type: mRNA
A,Residues: 'MACRQLLCSVQNLLFFPLRDIYCTDFDT',1-352,'FPQR',358-364,'R',366,'I',393,'SP',396
A,Gross-references: EMBL:M71274; NID:g897822
A;Note: sequence extracted from NCBI backbone (NCBIN:85178, NCBIP:85179)
C,Superfamily: surface protein rhoptry
C;Keywords: surface antigen
F;12-21/Domain: signal sequence #status predicted <SIG>
F;22-396/Product: surface protein rhoptry #status predicted <MAT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:Q04151; GB:M71274; NID:g897822; PIDN:AAA69859.1; PID:g897823 A;Note: revision to sequence reported in A45644 R;Ossorio, p.N.; Schwartzman, J.D.; Boothroyd, J.C. Mol. Blochem. Parasitol. 50, 1-15, 1992 Mol. Blochem. Parasitol. 50, 1-15, 1992 Mol. Blochem. Parasitol. 50, 1-15, 1992 A;Title: A Toxoplasma gondii rhoptry protein associated with host cell penetration has u A;Reference number: A45644; MUID:92178277; PMID:1542304 A;Recession: A45644
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                                                ફ
                                                                                                                                                                                                           A;Experimental source: lens
A;Note: sequence extracted from NCBI backbone (NCBIN:132495, NCBIP:132499)
A;Note: part of this sequence was confirmed by protein sequencing
C;Keywords: membrane-associated protein
                                                                                                                                                                                                                                                                                                             A; Molecule type: mRNA
A; Residues: 1-622, 'RP',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A, Reference number: A, Accession: S32103
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A; Residues: 1-396 <BOO>
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Best Local
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                                                                                                                                                                                                      part of this sequence was confi
ds: membrane-associated protein
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  496
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                                                                                                                               Similarity
  KGDDSVPPDSGVEPSP-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ----DCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
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                                              RGDGQEAPDVVAFVAPGESQQEEPPTDN----QDIEPGQEREGTPPIEERKVEGDCQEM
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                                                                                                                                                                                                                                                                                                             625-755 <GO2>
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                                                                                                    Score 88; DB Pred. No. 5; 6; Mismatches
  -QQPEPPLEEGQGPPQEKEDGLKEEGGPP-
                                                                                                    6,
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Pred. No. 2
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                                                                                                    34;
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                                                                                                                                                        Length 755
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  541
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protein H05009.1 [imported] - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 10-May-2001 #text_change C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change C;Accession: E89066 R;Anonymous, The C. elegans Sequencing Consortium. Science 282, 2012-2018, 1998 A;Title: Genome sequence of the nematode C. elegans: a platform A;Title: Genome sequence of the nematode C. elegans: a platform A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www_san A;Note: published errata appeared in Science 283, 35, 1999; Science 283, 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Brain Res. Mol. Brain Res. 48, 229-242, 1
A;Title: Sequence and expression pattern
A;Reference number: Z26090
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C;Accession: T52485
R;Gervasi, C.; Szaro, B.G.
Brain Res. Mol. Brain Res.
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C;Species: Xenopus laevis (African clawed frog)
C;Date: 24-Oct_2000 #sequence_revision 24-Oct-2000 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-2109 < STO>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:Q8ISF7; UNIPROT:Q8ISF6; UNIPROT:Q8ISF5; GB:chr_V; PIDN:AAC19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Status: preliminary
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Best Local Similarity
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   54 IEERKVEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43 - EPGQEREGTPPIEERKVEGDCQEMDLEKTRSERGD-----GSDVKEKTPPNPKHAK---
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                                                                          QEVPMVAAPLEPIQEEVPKEAAPSEPTQEDVPKGAAPLEPTQEDVPKEAAPSGPTQEDVP
                                                                                                                                                  QEAPDVVA-----
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23.8%;
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on pattern of
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Pred. No.
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Pred. No.
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14;
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A;Molecule type: mRNA
A;Residues: 1-230;'I',232-360,'L',362-517 <FIN1>
A;Cross-references: EMBL:X64002; NID:g35870; PIDN:CAA45404.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: protein
A; Residues: 27-40|91-97;445-460;505-517 < ASO2>
A; Residues: 27-40|91-97;445-460;505-517 < ASO2>
R; Finkelstein, A. Kostrub, C.F.; Li, J.; Chavez, D.P.; Wang Nature 355, 464-467, 1992
Nature 355, 464-467, 1992
A; Title: A cDNA encoding RAP74, a general initiation factor A; Reference number: S20589; MUID:92131136; PMID:1734284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transcription factor TFIIF large chain - human
N;Alternate names | ATP-dependent DNA helicase RAP30/74 chain RAP74; RNA polymerase II-as
C;Species: Homo sapiens (man)
C;Date: 03-May-1994 #sequence revision 20-Feb-1995 #text_change 09-Jul-2004
C;Accession: S20248; S25402; $20589; S25403
C;Accession: S20248; S25402; $20589; S25403
R;Aso, T.; Vasavada, H.A.; Kawaguchi, T.; Germino, F.J.; Ganguly, S.; Kitajima, S.; Weis
Nature 355, 461-464, 1992
A;Title: Charactefization of cDNA for the large subunit of the transcription initiation
A;Reference number: S20248; MUID:92131135; PMID:1734283
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Rileonard, S.; Hinds, K.
submitted to the MBL Data Library, May 1998
submitted to the SMBL Data Library, May 1998
submitted to the SMBL Data Library, May 1998
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                                                                                                                                                                                                                                                                                                                 A; Molecule type: protein
                                                                                                                                                                                                                                                                                                                                               A; Accession: S25403
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A;Restdues: 1-517 <ASCID>
A;Cross-reference#: UNIPROT:P35269; EMBL:X64037; NID:g35868; PIDN:CAA45408.1; PID:g35869
A;Accession: S25402
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A; Residues: 1-2109 < LEO>
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                                                                                                                                                                                    Query Match
Best Local
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Best Local (
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                                                                                                                                                                                                                                                                DNA binding;
                                                                                                                                                                                                                                                                                      35-45;50-68;90-100;154-163;383-394;426-434 <FIN2>
                                                                                                                                                                                    Similarity
                                                   SDGSSSSQEEPESKA-KAP---QQEEGPKGVDEQSDSSEESEEEKPPEEDKEEEEEKKAP
                                                                                                       SRGRGDGQEAPDVVAFVAPGESQQEEPP--TDNQDIEPGQEREGTPPIEERKVEGD----
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  -CQEMDLEKTRSERGDGSD------VKEKTPP--NPKHAKTKEAGDGQP 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KEEAPSEPTQEDVPKEAAPSEPTQENVPKEAAPSEPTKDVPKEAAPSEP 1820
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29.9%;
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Pred. No.
                                                                                                                                                                                    Score 87.5;
Pred. No. 3.
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                                                                                                                                                           Mismatches
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MSARVRSRSRGRGDGQEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEERKVE

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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Jate: 13-Aug-1999 #sequence
C;Accession: T13161, T08786
C;Accession: T13161, T08786
R;Lamerdin, J.E.; McCready, P.M.; Skowronski, E.; Viswanathan, V.; Burkhart-Schultz, J.; Danganan, L.; Erler, A.; Christensen, M.; Georgescu, A.; Avila, J.; Liu, S.; At; Quan, G.; Kronmiller, B.; Arellano, A.; Saunders, C.; Ow, D.; Nolan, M.; Trong, S.; Quan, G.; Kronmiller, B.; Arellano, A.; Saunders, C.; Ow, D.; Nolan, M.; Trong, S.; Limitted to the EMBL Data Library, October 1998
submitted to the EMBL Data Library, October 1998
A;Authors: Kobayashi, A.; Olsen, A.S.; Carrano, A.V.
A;Description: Sequence analysis of a 1.5 Mb OLFR-rich region in 19p13.1.
A;Reference number: Z17617
A;Reference number: Z17617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Glasgow, E.; Hall, C.M.; Schechter, N.
J. Neurochem. 63, 52-61, 1994
A;Title: Organization, sequence, and expression of a gene A;Reference number: I50479; MUID:94267484; PMID:8207446
A;Accession: I50479
                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:043823; EMBL:AC005785; NID:g3702290; PID:g3702291; PIDN:AAC6 R;Koehrer, K.; Beyer, A.; Mewes, H.W.; Gassenhuber, J.; Wiemann, S. submitted to the Protein Sequence Database, May 1999
                                                                                                                                                                                                                                                                                                                                                                                                                      A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-692 <LAM>
                                                                                                                         A; Map position: 19
A; Introns: 7/1; 20
                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 335-692 < KOE>
                                                                                                                                                                                                                                                                                                                          A; Reference number: Z16468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A-kinase anchor protein 95 - human
N;Alternate names: protein DKFZp586B1222.1
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A;Molecule type: DNA
A;Residues: 1-798 <GLA>
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C;Species: Carassius auratus (goldfish)
C;Date: 21-Feb-1997 #sequence_revision 21-Feb-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                 A; Note: DKFZp586B1222
                                                                                                                                                                                                   A; Experimental source: adult
                                                                                                                                                                                                                          A; Cross-references: EMBL: AL050160
                                                                                                                                                                                                                                                                                                A; Accession: T08786
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27; Conserv
                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GDGQEAPDV-----VAFVAPGESQQEEPPTDNQDIEPG---QEREGTPPIEERK
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                       15.9%;
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Score 86; DB:
Pred. No. 6.8;
L8; Mismatches
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Pred. No.
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  10;
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  Gaps
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Attix

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hypothetical protein AT4912610 [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
C:Accession: D85135
R:anonymous. The European Union Arabidopsis Genome Sequencing Consortium, The Cold Sprin Nature 402, 769-777, 1999
A:Fitle: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana.
A:Reference number: A85001; MUID:20083488; PMID:10617198
A:Accession: D85135
A
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Search completed: August 24, 2005, 18:43:43 
Job time : 23 secs
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A;Gene: AT4g12610
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Local Similarity 28.6%; Pred. No. 7.8;
hes 26; Conservative 17; Mismatches 42; Indels
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Sequence:

Sequence 51530, A
Sequence 23819, A
Sequence 1055, Ap
Sequence 15378, A
Patent No. 5171843
Patent No. 5171843
Patent No. 5171843
Patent No. 5171843
Sequence 12, Appli
Sequence 19, Appli

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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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1 MSARVRSRGRGDGQEAPD.....EKTPPNPKHAKTKEAGDGQP
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1: /cgn2_6/ptodata/1/laa/5A_COMB.pep:*

2: /cgn2_6/ptodata/1/laa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/laa/6B_COMB.pep:*

4: /cgn2_6/ptodata/1/laa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/laa/backfIles1.pep:*
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   GenCore version (c) 1993 - 2005
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Sequence 7591, Ap
Sequence 7592, Ap
Sequence 8, Appli
Sequence 6, Appli
Sequence 4, Appli
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Sequence 18, Appli
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Sequence 55, Appli
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Sequence 57, Appli
Sequence 6170, Ap
Sequence 7728, Appli
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Sequence 28176, Appli
Sequence 21171, Appli
Sequence 210122, A
Sequence 21441, A
Sequence 21441, A
Sequence 24491, A
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Patent No. 6639063
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTS and Encoded Human Properties GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-621-976-7591
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US-09-621-976-7592
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US-09-621-976-7591
   SEQ ID NO 7592
LENGTH: 110
TYPE: PRT
                                                                                                                                                                                                                 Sequence 7592, Application US/09621976
Patent No. 6639063
GENERAL INFORMATION:
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SOFTWARE: Patent.pm
SEQ ID NO 7591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                  APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTMARE: Patent.pm
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nilarity 44.1%;
Conservative 1:
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US-09-873-737A-2
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US-09-661-468-19
US-09-976-165-19
US-09-976-165-19
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US-09-978-388-19
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US-09-978-388-092-3881
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Pred. No. 3e-12;
1; Mismatches
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Indels Length

9

Gaps

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Result No.

84

Minimum I Maximum I

DB 80

Database

COCATION: 82
OTHER INFORMATION: Xaa = Ala, Glu

ORGANISM: Homo sapiens FEATURE: NAME/KEY: UNSURE

NAME/KEY: UNSURE

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US-09-621-976-7592
                                                                                                                               US-09-163-748C-8
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                                                                                                                                                                               SEQ ID NO 8
LENGTH: 116
TYPE: PRT
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Best Local Similarity
Matches 47; Conserv
                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
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                                                                 Matches
                                                                                                                                                                                                                                                                                 APPLICANT: DeBacker, Oliver
APPLICANT: Van den Eynde, Benoit
APPLICANT: Boon-Falleur, Thierry
TITLE OF INVENTION: Isolated Nucleic Acid Molecules Which Encode Member Of The Gage
TITLE OF INVENTION: Family, The Proteins Encoded, And Uses Thereof
                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/163,748C CURRENT FILING DATE: 1998-09-30
                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
                                                                                                                                                FEATURE:
                                                                                                                                                               ORGANISM: Homo sapiens
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OTHER INFORMATION: Xaa = Pro,Ser
NAME/KEY: UNSURE
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OTHER INFORMATION:
NAME/KEY: UNSURE
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OTHER INFORMATION:
NAME/KEY: UNSURE
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OTHER INFORMATION:
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                                                                                Similarity
                             MSARVRSRSRGRGDGQ-EAPDVVA-----FVAPGESQQEEPPTDNQDIEPGQER--
MSWRGRSTYRPRPRRYVEPPEMIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAAQEQED
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                                                               22.6%; Score 122; DB 4
34.5%; Pred. No. 8e-06;
tive 11; Mismatches
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Pred. No. 5.1e-11;
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                                                                                              DB 4; Length 116;
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; OTHER INFORMATION: Xaa=Leu or Ile US-09-873-737A-6
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                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Duke University
APPLICANT: Lin, Haifan
APPLICANT: Lin, Haifan
TITLE OF INVENTION: PURIFIED AND ISOLATED piwi FAMILY GENES:
TITLE OF INVENTION: PRODUCTS AND THERAPEUTIC AND SCREENING!
FILE REFERENCE: Attorney Docket No. 6723534 180-104/2
CURRENT APPLICATION NUMBER: US/09/873,737A
CURRENT FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: PCT/US99/28764
PRIOR APPLICATION NUMBER: PCT/US99/28764
PRIOR APPLICATION NUMBER: 60/110,901
                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 6, Application Patent No. 6723534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
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Best Local Similarity 32.3%;
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Patent No. 65091
                                                    NAME/KEY: misc_feature
LOCATION: (76)
OTHER INFORMATION: Xaa=Leu o:
NAME/KEY: misc_feature
LOCATION: (303)
OTHER INFORMATION: Xaa=Leu o:
NAME/KEY: misc_feature
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TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
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APPLICANT: Van den Eynde, Benoit
APPLICANT: Boon-Falleur, Thierry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: LUD 5558
CURRENT APPLICATION NUMBER: US/09/163,748C
CURRENT FILING DATE: 1998-09-30
NUMBER OF SEQ ID NOS: 27
                                                                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 1998-12-04
NUMBER OF SEQ ID NOS: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Isolated Nucleic Acid Molecules Which Encode Member TITLE OF INVENTION: Family, The Proteins Encoded, And Uses Thereof
                                                                                                                                                                                                                LENGTH: 861
TYPE: PRT
ORGANISM: Homo sapiens
                                       LOCATION:
                                                                                                                                                                                                       FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ECE----DGPDGQEMDPPNPEEVKTPEEGEKQ 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Application US/09163748C
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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Pred. No. 0.00033;
9; Mismatches 42
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; NAME/KEY: misc_feature; LOCATION: (816); OTHER INFORMATION: Xaa=Leu or Ile US-09-873-737A-4
                                                                                                                                                           RESULT 7
U8-08-301-162-2
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                                        .GENERAL INFORMATION:
APPLICANT: Knapp,
APPLICANT: Ziegelm
APPLICANT: Kupper,
                                                                                                                      Sequence 2, App
Patent No. 6022
                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match |
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc_feature
LOCATION: (99)
OTHER INFORMATION: Xaa=Leu or I]
NAME/KEY: misc_feature
LOCATION: (216)
OTHER INFORMATION: Xaa=Leu or I]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/110,901
PRIOR FILING DATE: 1998-12-04
NUMBER OF SEQ ID NOS: 21
SOPTWARE: Patentin Ver. 2.1
SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 4, Application US/09873737A
Patent No. 6723534
GENERAL INFORMATION:
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TYPE: PRT
ORGANISM: Mus sp.
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APPLICANT: Lin, Haifan
TITLE OF INVENTION: PURIFIED AND ISOLATED piwi FAMILY GENES AND GENE
TITLE OF INVENTION: PRODUCTS AND THERAPEUTIC AND SCREENING METHODS USING SAME
FILE REFERENCE: Attorney Docket No. 6723534 180-104/2
CURRENT FILLNG DATE: 2001-06-04
PRIOR APPLICATION NUMBER: PCT/US99/28764
PRIOR APPLICATION NUMBER: PCT/US99/28764
PRIOR APPLICATION NUMBER: PCT/US99/28764
PRIOR FILING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: misc feature
LOCATION: (383)
OTHER INFORMATION: Xaa=Leu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
APPLICANT: Kupper, Hans
TITLE OF INVENTION: Toxo
TITLE OF INVENTION: Prep
                                                                                                                                                                                                                                                58 GATSKSQELQISAGFQELSLAERGGRRRDFHDXGVNTRQNLDHVKESKTG 107
                                                                                                                                                                                                                                                                                    49 EGTPPIEERKVEGDCQEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAG
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                                                                                                                                                                                                                                                                                                                                                     1 MSARVRSRSRGRGDGQEAPDVVAFVAPGESQQ------EBPPTDNQDIEPGQER----
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1 Similarity 28.3%;
30; Conservative 1
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                                                                                                                              Application US/08301162
5022546
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                                                                                                                                                                                                                                                                                                                            MTGRARARGRARGQE---TVQHVGAAASQQPGYIPPRPQQSPTEGDLVGRGRQRGMVV 57
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                                                             Knapp, Stefan
Ziegelmaier, Robert
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Toxoplasma Gondii Antigens, Preparation Thereof and the
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  Use Thereof
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                                                                                                                                                                                                                                                                               Sequence 2, Application US/09461240 Patent No. 6326008 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 0: FILING DATE: 06-DEC-1990
APPLICATION NUMBER: DE P: FILING DATE: 08-DEC-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 1
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
CORRATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow,
ADDRESSEE: Dunner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: 202-408-4000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Fleshner, Raz E.
REGISTRATION NUMBER: 34,331
REFERENCE/DOCKET NUMBER: 02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                   Kupper, Hans
TITLE OF INVENTION: Toxoplasma Gondii Antigens,
Pranaration Thereof and the
                                                                                                                                                                                                                                            APPLICANT: Knapp, Stefan
Ziegelmaier, Robert
COMPUTER READABLE FORM:
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                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                    250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEB---RKVEG------DC
                                 STATE: D.C.
COUNTRY: USA
                                                                        CITY: Washington
                                                                                           STREET: 1300 I Street,
                                                                                                                         ADDRESSEE: Finnegan, Henderson, Farabow, Garrett
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                                                                                           N.W., Suite 700
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MEDIUM TYPE: Floppy disk

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                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 2, Appl
; Patent No. 6419
; GENERAL INFORM
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Best Local (
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/09/968,927
FILING DATE: 03-Oct-2001
                                                                                                                                                                                                                                                                                                                                                        Ziegelmaier, Robert
Kupper, Hans
TITLE OF INVENTION: Toxoplasma
                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Knapp, Stefan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: Fleshner, Raz E.
                                                                                                                                                                                                                                                                                                     CORRESPONDENCE
                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 02481.1005-00000 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US/08/301,162
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                64 QEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16 QEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEE---RKVEG------DC 63
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            App
                                                                                                                                                                                                                                      Dunner STREET: 1300 I Street, N.W., Suite 700
                                                                                                                                                          COUNTRY: USA
ZIP: 20005-3315
                                                                                                                                                                                                 STATE: D.C
                                                                                                                                                                                                                 CITY: Washington
                                                                                                                                                                                                                                                                        ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         QUILLEPT-EEQQEGP--QEPLPPPPPPPTRGEQPEGQQP 285
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TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/623,086
FILING DATE: 06-DEC-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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APPLICATION NUMBER: US/08/167,128
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                                                                                                                                                                                                                                                                                                                                     Toxoplasma Gondii Antigens, Preparation Thereof and the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 93.5; DB Pred. No. 0.041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  34,331
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                                                                                                                                                                                                                                                                                                                                         Use Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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US-08-301-162-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No. 6022546
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                        COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/301,162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kupper, Hans
TITLE OF INVENTION: Toxo
TITLE OF INVENTION: Prep
                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: (
                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Knapp, Stefan APPLICANT: Ziegelmaier, Robert
                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Finner
ADDRESSEE: Dunner
ADDRESSEE: Dunner
1300 I Street, N.W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/301,162
FILING DATE: <Unknown>
APPLICATION NUMBER: US/08/167,128
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/623,086
FILING DATE: 06-DEC-1990
APPLICATION NUMBER: DE B3940598.2
FILING DATE: 08-DEC-1989
ATTORNEY/AGENT INFORMATION:
NEMBER: Elsenar B27 E
APPLICATION NUMBER: FILING DATE: 06-DEC-APPLICATION NUMBER:
                                                             FILING DATE:
                                                                                                                     CLASSIFICATION: 424
                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 17.3%; Score 93.5; DB Local Similarity 30.3%; Pred. No. 0.041;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPERENCE/DOCKET NUMBER: 34,331
TELECOMMUNICATION INFORMATION:
TELEPHONE: 1202-408-4400
TELEFAX: 202-408-4400
WANTON FOR SEO ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/08301162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
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                        US 07/623,086
C-1990
    DE P3940598.2
                                                                              US/08/167,128
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Use Thereof
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FILING DATE:

08-DEC-1989

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US-09-461-240-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 18, Application US/09461240
Patent No. 6326008
GENERAL INFORMATION:
APPLICANT: Knapp, Stefan
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TELEPAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 02481.1005-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Fleshner, Raz E. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 428 amino acids
                                                                             APPLICATION NUMBER: DE P3940598.2
PILING DATE: 08-DEC-1989
ATTORNEY/AGENT INFORMATION:
NAME: Fleshner, Raz E.
                                                                                                                                                                                                                                                                            SOFTWARE: PATENTIN Release #1.0, V
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/461,240
FILING DATE: 16-Dec-1999
CLASSIFICATION: «Unknown»
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
TELEPHONE: 202-408-4000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 20 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      182 QELPPPTEQELPPPTEQELPPPTEQELAPSTEQELPPPVGEGQRLQVPGEHGPQGPPYDD 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           242 QQLLLEPT-EEQQEGP--QEPLPPPPPPTRGEQPEGQQP 277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 QEAPDVVAFVAPGESQQEEPPTDNQDIEPGQEREGTPPIEE---RKVEG------DC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
GY: linear
                                                                                                                                                      APPLICATION NUMBER: US/08/301,162
FILING DATE: -Ubknown>
APPLICATION NUMBER: US/08/167,128
FILING DATE: -Ubknown>
APPLICATION NUMBER: US 07/623,086
FILING DATE: 06-DEC-1990
                                     REGISTRATION NUMBER: 34,331
REFERENCE/DOCKET NUMBER: 02481.1005-00000
                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPBRATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 1300 I Street, N.W., Suite 700
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
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Ziegelmaier, Robert
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30.3%;
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                                                                                                                                                                                                                                                                                                                                                                              Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       39;
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RESULT 12
US-09-968-927-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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Best Local Similarity
                                                                                                    TELEPHONE: 202-408-40
TELEPAX: 202-408-4400
TELEPAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INFORMATION FOR SEQ ID NO: 18:
                                                                                                                                                                                                                                                             APPLICATION NUMBER: US/09/968,927
FILING DATE: 03-Oct-2001
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/301,162
FILING DATE: - UNKNOWN>
APPLICATION NUMBER: US/08/167,128
FILING DATE: - UNKNOWN>
APPLICATION NUMBER: US 07/623,086
FILING DATE: - OC-1990
APPLICATION NUMBER: DE 93940598.2
FILING DATE: 08-DEC-1989
ATTORNEY/ACENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, V
CURRENT APPLICATION DATA:
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 18:
                                                                                                                                                                                  REFERENCE/DOCKET NUMBER: TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kupper, Hans
TITLE OF INVENTION: Toxoplasma Gondii Antigens, The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Knapp, Stefan
Ziegelmaier, Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO: 18:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
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                                                           TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Dunner
STREET: 1300 I Street, N.W., Suite 700
                                                                                                                                                                                                                             REGISTRATION NUMBER:
                                                                                                                                                                                                                                                NAME: Fleshner, Raz E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 428 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: linear
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                                                                                                                                                                 202-408-4000
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                                                                                                                                                                                                                             34,331
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Version #1.25
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GENERAL INFORMATION:

APPLICANT: MAINE, Gregory T.

APPLICANT: HUNT, Jeffery C.

APPLICANT: BROJANAC, Susan

APPLICANT: JYH-TSING SHEU, Michael

APPLICANT: CHOVAN, Linda E.

APPLICANT: TWER, Joan D.

APPLICANT: HOWARD, Lawrence V.

TITLE OF INVENTION: ANTIGEN COCKTAIL
                                                                                                                                                                                                                       RESULT 14
US-09-086-503-55
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US-09-303-064-55
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: Fast$EQ for Windows Version 3.0
SEQ ID NO 55
LENGTH: 667
TYPE: PRT TOXOplasma gondii
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: MAINE, Gregory T.
APPLICANT: HUNT, Jeffery C.
                                                                                                                                                                                  Sequence 55, Application US/09086503A Patent No. 6329157
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Best Local Similarity
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CURRENT FILING DATE: 1999-04-30
EARLIER APPLICATION NUMBER: 09/086,503
EARLIER FILING DATE: 1998-05-28
NUMBER OF SEQ 1D NOS: 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: LI, Shuli
TITLE OF INVENTION: ANTIGEN COCKTAILS, P35
FILE REFERENCE: 6361.US.P1
FILE REFERENCE: 6361.US.01
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                                                                                                                                                                                                                                                                                                389 QQLLLEPT-EEQQEGP--QEPLPPPPPPTRGEQPEGQQP 424
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                                                                                                                                                                                                                                                                                                                                   64 QEMDLEKTRSERGDGSDVKEKTPPNPKHAKTKEAGDGQP 102
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SUZUKI, Yashuhiro
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; CURRENT APPLICATION NUMBER: US/09/086,503A
; CURRENT FILING DATE: 1998-05-28
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 55
; LENGTH: 667
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-086-503-55
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US-09-949-016-6170
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               Search completed: August 24, 2005, 18:47:22
Job time :
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Best Local S
Matches 35
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Best Local Similarity
Matches 30; Conserv
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SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 6170
LENGTH: 517
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
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TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS
                                                                                                                                                                                                                    Match 16.2%;
Local Similarity 29.9%;
es 35; Conservative 11
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o. 6812339
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                                                                       TPQEKKRRKDSSEESDSSEESDIDSEASSAFFMAKKKTPPKRERKPSGGSSRGNSRP 387
                                                                                                             -CQEMDLEKTRSERGDGSD-----
                                                                                                                                                                                 SRGRGDGQEAPDVVAFVAPGESQQEEPP--TDNQDIEPGQEREGTPPIEERKVEGD---- 62
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